



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 172794

TO: Cybille Delacroix
Location: 3a78 / 3c70
Wednesday, November 30, 2005
Art Unit: 1614
Phone: 571-272-0572 447
Serial Number: 10 / 037417

From: Jan Delaval
Location: Biotech-Chem Library
Remsen 1a51
Phone: 571-272-2504

jan.delaval@uspto.gov

Search Notes

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: C. Deacon Examiner #: 7100 Date: 11-29-05
 Art Unit: 1614 Phone Number 302-0572 Serial Number: 101037, 447
 Mail Box and Bldg/Room Location: 43C70 43A78 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

* For Sequence Searches Only: Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search the compound of formula (II) and the compound of claim 13. See claims 1, 5, and 13.
 Also, please do an interference search of the compounds in USPTAFULL and USPTA2.

Thanks CM

Please Rush!

STAFF USE ONLY

Searcher <u>an</u>	Type of Search	Vendors and cost where applicable
Searcher Phone # <u>22504</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Location _____	AA Sequence (#) _____	Dialog _____
Date Searcher Picked Up <u>11/29/05</u>	Structure (#) <u>✓</u>	Questel/Chbi _____
Date Completed <u>11/31/05</u>	Bibliographic _____	Dr. Link _____
Searcher Pre-Review Time <u>1.5</u>	Litigation _____	Lexis/Nexis _____
Chemical Prep Time <u>+ 40</u>	Fulltext _____	Sequence Systems _____
_____	Patent Family _____	WWW/Internet _____
_____	Other _____	Other (specify) _____



STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact*:

Mary Hale, Information Branch Supervisor
Remsen Bldg. 01 D86
571-272-2507

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC-Biotech-Chem Library Remsen Bldg.



=> fil reg

FILE 'REGISTRY' ENTERED AT 07:57:22 ON 30 NOV 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 NOV 2005 HIGHEST RN 868827-82-1

DICTIONARY FILE UPDATES: 28 NOV 2005 HIGHEST RN 868827-82-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*
*****
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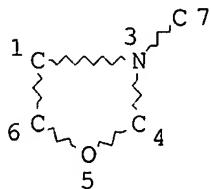
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d sta que 122

L3 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

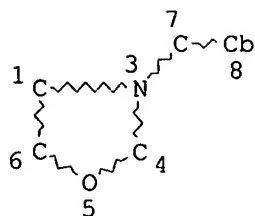
NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L5 82754 SEA FILE=REGISTRY SSS FUL L3

L6 SCR 2040

L16 STR



NODE ATTRIBUTES:

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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

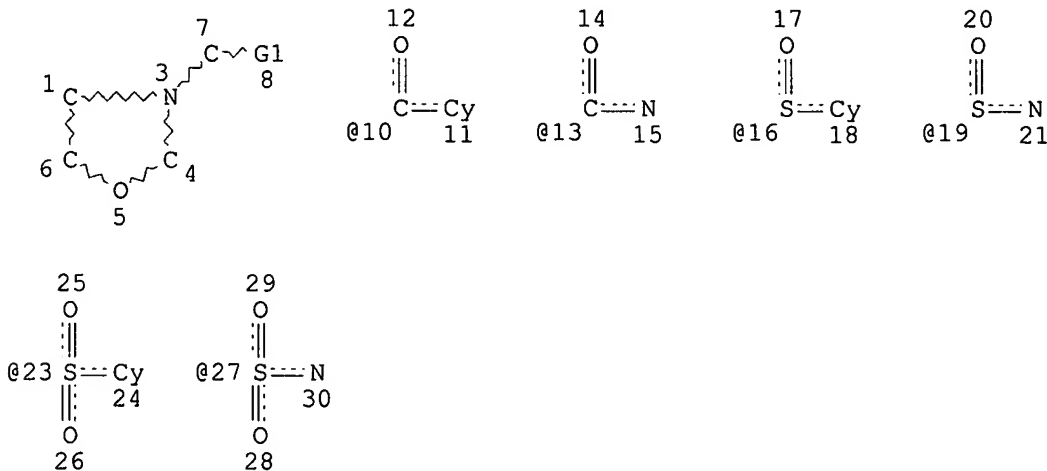
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 NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

L18 71 SEA FILE=REGISTRY SUB=L5 SSS FUL L16 AND L6
 L19 65 SEA FILE=REGISTRY ABB=ON PLU=ON L18 NOT CCS/CI
 L20 20 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND NCOC2/ES
 L21 15 SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND 16.239.9/RID
 L22 3 SEA FILE=REGISTRY ABB=ON PLU=ON L21 AND C10H10NO

=> d sta que 129

L1 STR



VAR G1=CN/10/16/23/13/19/27

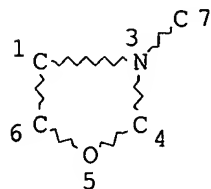
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NSPEC IS RC AT 15
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 NSPEC IS RC AT 30
 CONNECT IS E3 RC AT 16
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 27

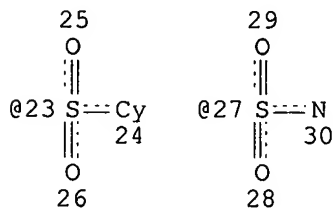
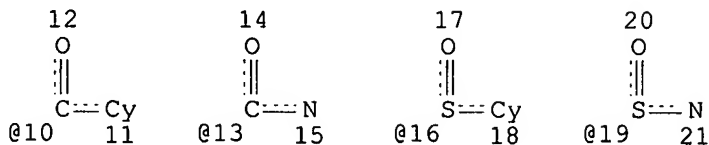
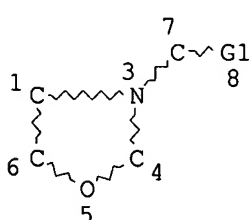
STEREO ATTRIBUTES: NONE
L3 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE
L5 82754 SEA FILE=REGISTRY SSS FUL L3
L6 SCR 2040
L9 175 SEA FILE=REGISTRY SUB=L5 SSS FUL L1 AND L6
L10 STR



VAR G1=CN/10/16/23/13/19/27

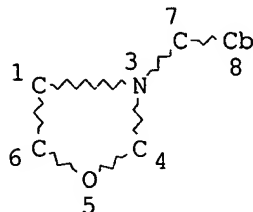
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NSPEC IS RC AT 21
NSPEC IS RC AT 30
CONNECT IS X2 RC AT 4
CONNECT IS E3 RC AT 16
CONNECT IS E3 RC AT 19
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE

L12 21 SEA FILE=REGISTRY SUB=L9 SSS FUL L10
 L13 11 SEA FILE=REGISTRY ABB=ON PLU=ON L12 NOT CCS/CI
 L16 STR



NODE ATTRIBUTES:

CONNECT IS X2 RC AT 4
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

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 L19 65 SEA FILE=REGISTRY ABB=ON PLU=ON L18 NOT CCS/CI
 L20 20 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND NCOC2/ES
 L21 15 SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND 16.239.9/RID
 L22 3 SEA FILE=REGISTRY ABB=ON PLU=ON L21 AND C10H10NO
 L23 12 SEA FILE=REGISTRY ABB=ON PLU=ON L21 NOT L22
 L24 4 SEA FILE=REGISTRY ABB=ON PLU=ON L23 AND (C11H9N2O OR
 C10H9BRNO)
 L27 10 SEA FILE=REGISTRY ABB=ON PLU=ON L13 NOT NC3-NCSC3/ES
 L28 8 SEA FILE=REGISTRY ABB=ON PLU=ON L23 NOT L24
 L29 22 SEA FILE=REGISTRY ABB=ON PLU=ON (L24 OR L27 OR L28)

=> d his

(FILE 'HOME' ENTERED AT 07:34:51 ON 30 NOV 2005)
 SET COST OFF

FILE 'REGISTRY' ENTERED AT 07:34:58 ON 30 NOV 2005

L1 STR
 L2 50 S L1
 L3 STR L1
 L4 50 S L3
 L5 82754 S L3 FUL
 SAV TEMP L5 DELAC037C/A
 L6 SCR 2040
 L7 50 S L6 SAM SUB=L5
 L8 9 S L1 AND L6 SAM SUB=L5
 L9 175 S L1 AND L6 FUL SUB=L5
 SAV TEMP L9 DELAC037D/A
 L10 STR L1
 L11 0 S L10 SAM SUB=L9
 L12 21 S L10 FUL SUB=L9
 SAV TEMP L12 DELAC037E/A
 L13 11 S L12 NOT CCS/CI

L14 STR L3
 L15 23 S L14 AND L6 SAM SUB=L5
 L16 STR L14
 L17 3 S L6 AND L16 SAM SUB=L5
 L18 71 S L16 AND L6 FUL SUB=L5
 SAV TEMP L18 DELAC037F/A
 L19 65 S L18 NOT CCS/CI
 L20 20 S L19 AND NCOC2/ES

FILE 'REGISTRY' ENTERED AT 07:47:12 ON 30 NOV 2005

L21 15 S L20 AND 16.239.9/RID
 L22 3 S L21 AND C10H10NO
 L23 12 S L21 NOT L22
 L24 4 S L23 AND (C11H9N2O OR C10H9BRNO)
 L25 45 S L19 NOT L20
 L26 6 S L18 NOT L19
 L27 10 S L13 NOT NC3-NCSC3/ES
 L28 8 S L23 NOT L24
 L29 22 S L24, L27, L28
 SAV TEMP L29 DELAC037G/A

FILE 'HCAOLD' ENTERED AT 07:55:50 ON 30 NOV 2005

L30 0 S L22
 L31 0 S L29

FILE 'HCAPLUS' ENTERED AT 07:55:54 ON 30 NOV 2005

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 L33 10 S L29
 ACT DELAC037B/A

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 L35 (109)SEA FILE=HCAPLUS ABB=ON PLU=ON ("EGAN J"/AU OR "EGAN J J"/AU
 L36 (69)SEA FILE=HCAPLUS ABB=ON PLU=ON ("EGAN JOHN"/AU OR "EGAN JOHN
 L37 (181)SEA FILE=HCAPLUS ABB=ON PLU=ON ("WAGLE D"/AU OR "WAGLE D G"/A
 L38 (42)SEA FILE=HCAPLUS ABB=ON PLU=ON ("VASAN S"/AU OR "VASAN S K"/A
 L39 (134)SEA FILE=HCAPLUS ABB=ON PLU=ON ("GALL M"/AU OR "GALL M A"/AU
 L40 (276)SEA FILE=HCAPLUS ABB=ON PLU=ON ("BELL S"/AU OR "BELL S A"/AU
 L41 (0)SEA FILE=HCAPLUS ABB=ON PLU=ON E30E9
 L42 (198)SEA FILE=HCAPLUS ABB=ON PLU=ON ("LAVOIE E"/AU OR "LAVOIE E J"
 L43 (14)SEA FILE=HCAPLUS ABB=ON PLU=ON ("LA VOIE E"/AU OR "LA VOIE ED
 L44 (1)SEA FILE=HCAPLUS ABB=ON PLU=ON "VOIE EDMOND J LA"/AU
 L45 (64)SEA FILE=HCAPLUS ABB=ON PLU=ON (ALTEON/PA OR ALTEON/CS OR "AL
 L46 (1011)SEA FILE=HCAPLUS ABB=ON PLU=ON (L35 OR L36 OR L37 OR L38 OR L
 L47 (12)SEA FILE=HCAPLUS ABB=ON PLU=ON ("EGAN JACK"/AU OR "EGAN JACK
 L48 (1020)SEA FILE=HCAPLUS ABB=ON PLU=ON (L46 OR L47)
 L49 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L34 AND L48

 ACT DELAC037A/A

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 L64 (1020)SEA FILE=HCAPLUS ABB=ON PLU=ON (L62 OR L63)
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 L66 1017 SEA FILE=HCAPLUS ABB=ON PLU=ON L64 NOT L65

 L67 0 S L32,L33 AND L49,L66

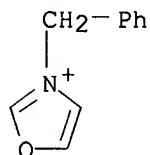
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L68 0 S L22
 L69 0 S L29

FILE 'REGISTRY' ENTERED AT 07:57:22 ON 30 NOV 2005

=> d l22 ide can tot

L22 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 862899-96-5 REGISTRY
 ED Entered STN: 12 Sep 2005
 CN Oxazolium, 3-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)
 MF C10 H10 N O . Br
 SR CA
 LC STN Files: CA, CAPLUS
 CRN (198641-30-4)



● Br⁻

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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

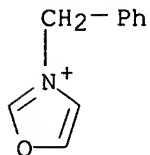
REFERENCE 1: 143:229974

L22 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 198641-31-5 REGISTRY
 ED Entered STN: 16 Dec 1997
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 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Borate(1-), tetrakis(pentafluorophenyl)-, 3-(phenylmethyl)oxazolium (9CI)
 OTHER NAMES:
 CN N-Benzyloxazolium tetrakis(pentafluorophenyl)borate
 MF C24 B F20 . C10 H10 N O
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 198641-30-4

CMF C10 H10 N O

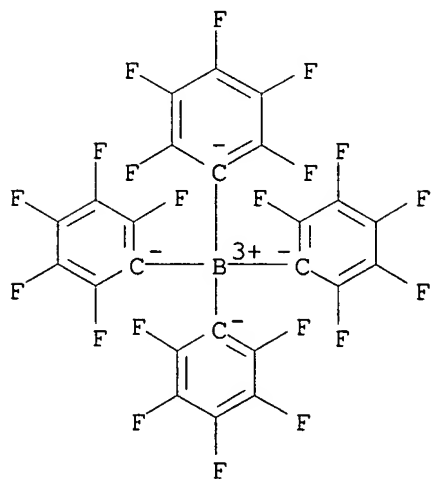


CM 2

CRN 47855-94-7

CMF C24 B F20

CCI CCS



5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:147502

REFERENCE 2: 128:128759

REFERENCE 3: 128:95393

REFERENCE 4: 128:76169

REFERENCE 5: 127:364175

L22 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN

RN 198641-30-4 REGISTRY

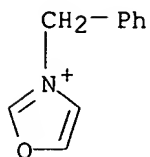
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CN Oxazolium, 3-(phenylmethyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

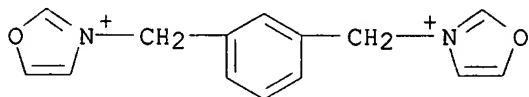
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CI COM
SR CA

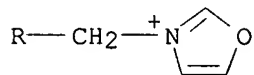
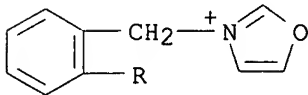


=> d 129 ide can tot

L29 ANSWER 1 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 862971-31-1 REGISTRY
ED Entered STN: 12 Sep 2005
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MF C14 H14 N2 O2
CI COM
SR CA



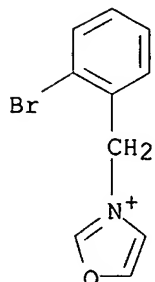
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CI COM
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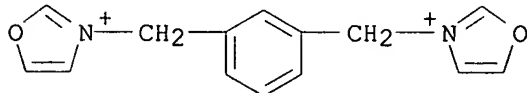
L29 ANSWER 3 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 862971-28-6 REGISTRY
ED Entered STN: 12 Sep 2005
CN Oxazolium, 3-[(2-bromophenyl)methyl]- (9CI) (CA INDEX NAME)

jan delaval - 30 november 2005

FS 3D CONCORD
 MF C10 H9 Br N O
 CI COM
 SR CA



L29 ANSWER 4 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 862900-04-7 REGISTRY
 ED Entered STN: 12 Sep 2005
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 LC STN Files: CA, CAPLUS
 CRN (862971-31-1)



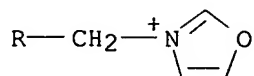
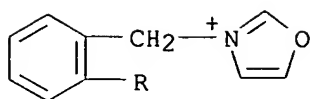
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REFERENCE 1: 143:229974

L29 ANSWER 5 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 862900-02-5 REGISTRY
 ED Entered STN: 12 Sep 2005
 CN Oxazolium, 3,3'-[1,2-phenylenebis(methylene)]bis-, dibromide (9CI) (CA
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 LC STN Files: CA, CAPLUS
 CRN (862971-30-0)



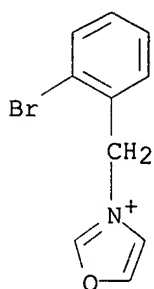
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:229974

L29 ANSWER 6 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 862899-98-7 REGISTRY
ED Entered STN: 12 Sep 2005
CN Oxazolium, 3-[(2-bromophenyl)methyl]-, bromide (9CI) (CA INDEX NAME)
MF C10 H9 Br N O . Br
SR CA
LC STN Files: CA, CAPLUS
CRN (862971-28-6)



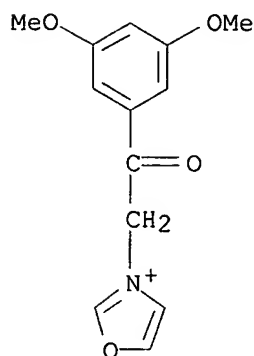
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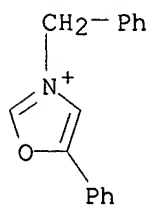
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:229974

L29 ANSWER 7 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 788121-57-3 REGISTRY
 ED Entered STN: 24 Nov 2004
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 CI COM
 SR CA



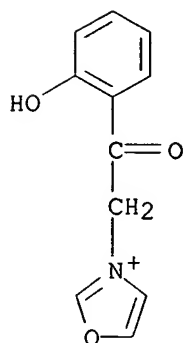
L29 ANSWER 8 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 717088-22-7 REGISTRY
 ED Entered STN: 27 Jul 2004
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 FS 3D CONCORD
 MF C16 H14 N O
 CI COM
 SR CA



L29 ANSWER 9 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 200573-26-8 REGISTRY
 ED Entered STN: 29 Jan 1998
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 OTHER CA INDEX NAMES:
 CN Borate(1-), tetrakis(pentafluorophenyl)-, 3-[2-(2-hydroxyphenyl)-2-oxoethyl]oxazolium (9CI)
 MF C24 B F20 . C11 H10 N O3
 SR CA
 LC STN Files: CA, CAPLUS

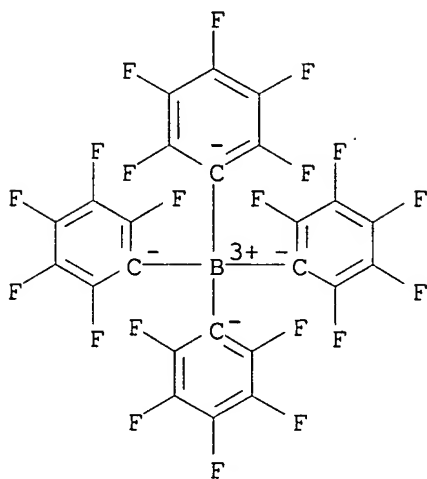
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CRN 200573-25-7
CMF C11 H10 N O3



CM 2

CRN 47855-94-7
CMF C24 B F20
CCI CCS

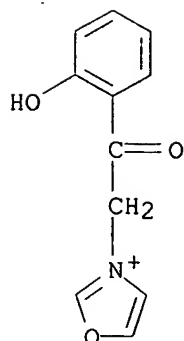


2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:128759

REFERENCE 2: 128:76169

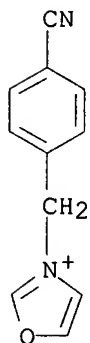
L29 ANSWER 10 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 200573-25-7 REGISTRY
ED Entered STN: 29 Jan 1998
CN Oxazolium, 3-[2-(2-hydroxyphenyl)-2-oxoethyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H10 N O3
CI COM
SR CA



L29 ANSWER 11 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 198641-33-7 REGISTRY
 ED Entered STN: 16 Dec 1997
 CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-)
) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Borate(1-), tetrakis(pentafluorophenyl)-, 3-[(4-
 cyanophenyl)methyl]oxazolium (9CI)
 OTHER NAMES:
 CN N-(p-Cyanobenzyl)oxazolium tetrakis(pentafluorophenyl)borate
 MF C24 B F20 . C11 H9 N2 O
 SR CA
 LC STN Files: CA, CAPLUS

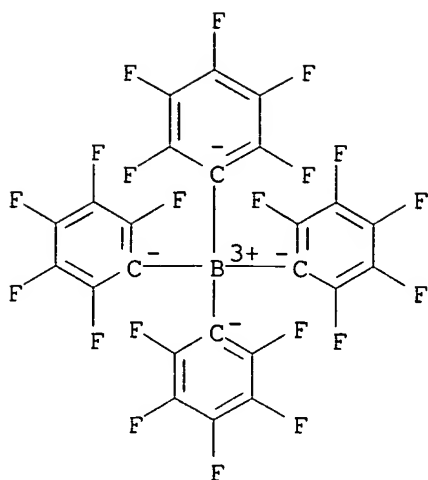
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CRN 198641-32-6
 CMF C11 H9 N2 O



CM 2

CRN 47855-94-7
 CMF C24 B F20
 CCI CCS



5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:147502

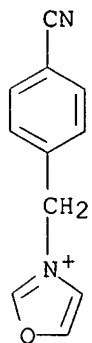
REFERENCE 2: 128:128759

REFERENCE 3: 128:95393

REFERENCE 4: 128:76169

REFERENCE 5: 127:364175

L29 ANSWER 12 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 198641-32-6 REGISTRY
ED Entered STN: 16 Dec 1997
CN Oxazolium, 3-[(4-cyanophenyl)methyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H9 N2 O
CI COM
SR CA



L29 ANSWER 13 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 197176-83-3 REGISTRY

ED Entered STN: 12 Nov 1997

CN Oxazolium, 3-[2-(4-benzoylphenyl)-2-oxoethyl]-, (T-4)-tris[3,5-bis(trifluoromethyl)phenyl]fluoroborate(1-) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Borate(1-), tris[3,5-bis(trifluoromethyl)phenyl]fluoro-, (T-4)-, 3-[2-(4-benzoylphenyl)-2-oxoethyl]oxazolium (9CI)

OTHER NAMES:

CN N-(p-Benzoylphenacyl)oxazolium tris[3,5-bis(trifluoromethyl)phenyl]fluoroborate

MF C24 H9 B F19 . C18 H14 N O3

SR CA

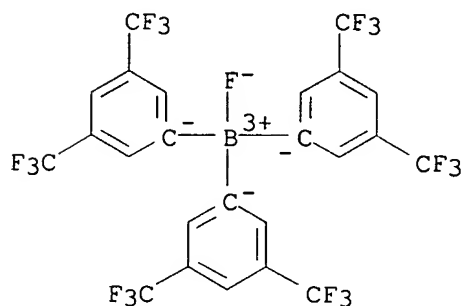
LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 197176-82-2

CMF C24 H9 B F19

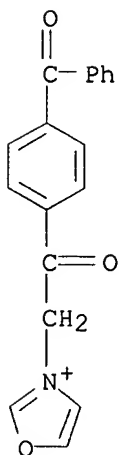
CCI CCS



CM 2

CRN 197176-81-1

CMF C18 H14 N O3

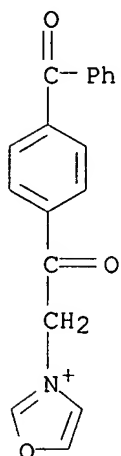


1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:308066

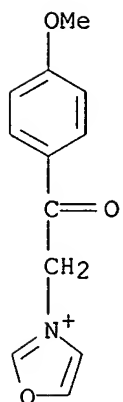
L29 ANSWER 14 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 197176-81-1 REGISTRY
 ED Entered STN: 12 Nov 1997
 CN Oxazolium, 3-[2-(4-benzoylphenyl)-2-oxoethyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H14 N O3
 CI COM
 SR CA



L29 ANSWER 15 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 197176-79-7 REGISTRY
 ED Entered STN: 12 Nov 1997
 CN Oxazolium, 3-[2-(4-methoxyphenyl)-2-oxoethyl]-, (T-4)-
 fluorotris(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Borate(1-), fluorotris(pentafluorophenyl)-, (T-4)-, 3-[2-(4-methoxyphenyl)-
 2-oxoethyl]oxazolium (9CI)
 OTHER NAMES:
 CN N-(p-Methoxyphenacyl)oxazolium tris(pentafluorophenyl)fluoroborate
 MF C18 B F16 . C12 H12 N O3
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 197176-78-6
 CMF C12 H12 N O3

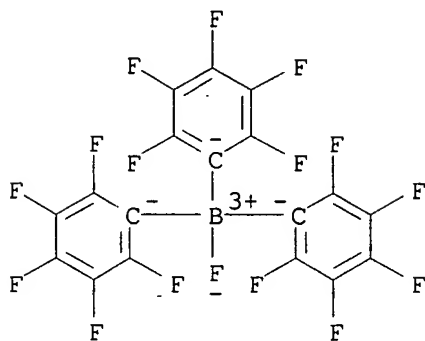


CM 2

CRN 121827-59-6

CMF C18 B F16

CCI CCS



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:308066

L29 ANSWER 16 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN

RN 197176-78-6 REGISTRY

ED Entered STN: 12 Nov 1997

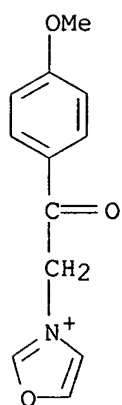
CN Oxazolium, 3-[2-(4-methoxyphenyl)-2-oxoethyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C12 H12 N O3

CI COM

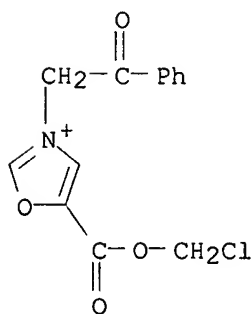
SR CA



L29 ANSWER 17 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 197176-26-4 REGISTRY
 ED Entered STN: 12 Nov 1997
 CN Oxazolium, 5-[(chloromethoxy)carbonyl]-3-(2-oxo-2-phenylethyl)-,
 tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Borate(1-), tetrakis(pentafluorophenyl)-, 5-[(chloromethoxy)carbonyl]-3-(2-
 oxo-2-phenylethyl)oxazolium (9CI)
 OTHER NAMES:
 CN 5-Chloromethoxycarbonyl-3-phenacyloxazolium tetrakis(pentafluorophenyl)bor
 ate
 MF C24 B F20 . C13 H11 Cl N O4
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

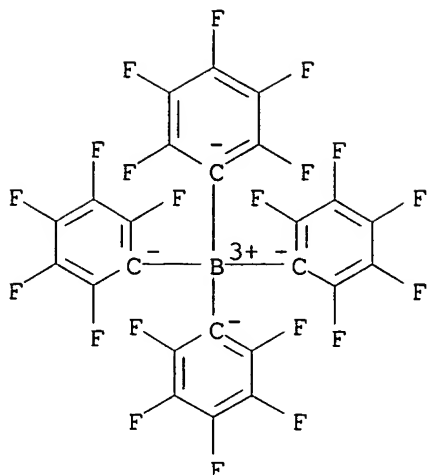
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 CRN 197176-25-3
 CMF C13 H11 Cl N O4



CM 2

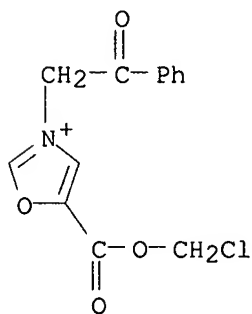
 CRN 47855-94-7
 CMF C24 B F20
 CCI CCS



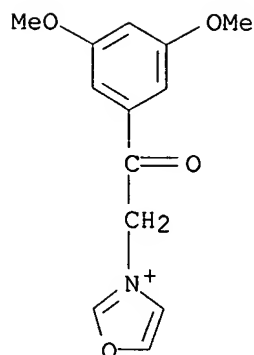
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:308066

L29 ANSWER 18 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 197176-25-3 REGISTRY
ED Entered STN: 12 Nov 1997
CN Oxazolium, 5-[(chloromethoxy)carbonyl]-3-(2-oxo-2-phenylethyl)- (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C13 H11 Cl N O4
CI COM
SR CA



L29 ANSWER 19 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 121704-46-9 REGISTRY
ED Entered STN: 21 Jul 1989
CN Oxazolium, 3-[2-(3,5-dimethoxyphenyl)-2-oxoethyl]-, bromide (9CI) (CA
INDEX NAME)
MF C13 H14 N O4 . Br
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)
CRN (788121-57-3)



● Br⁻

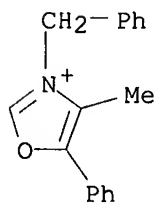
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 111:134044

L29 ANSWER 20 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 62833-70-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Oxazolium, 4-methyl-5-phenyl-3-(phenylmethyl)-, benzenesulfonate (9CI)
(CA INDEX NAME)
MF C17 H16 N O . C6 H5 O3 S
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

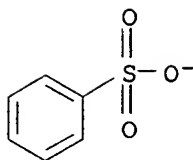
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CRN 62833-69-6
CMF C17 H16 N O



CM 2

CRN 3198-32-1
CMF C6 H5 O3 S

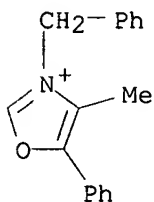


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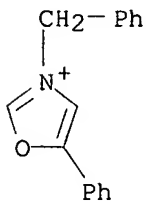
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 86:171327

L29 ANSWER 21 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 62833-69-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Oxazolium, 4-methyl-5-phenyl-3-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H16 N O
CI COM



L29 ANSWER 22 OF 22 REGISTRY COPYRIGHT 2005 ACS on STN
RN 54026-87-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Oxazolium, 5-phenyl-3-(phenylmethyl)-, chloride (9CI) (CA INDEX NAME)
MF C16 H14 N O . Cl
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
CRN (717088-22-7)



● Cl⁻

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 81:136087

=> fil hcaplus

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FILE LAST UPDATED: 29 Nov 2005 (20051129/ED)

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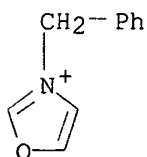
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l32 all hitstr tot

L32 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:556384 HCAPLUS
DN 143:229974
ED Entered STN: 28 Jun 2005
TI A Simple Route to Novel Palladium(II) Catalysts with Oxazolin-2-ylidene Ligands
AU Tubaro, Cristina; Biffis, Andrea; Basato, Marino; Benetollo, Franco; Cavell, Kingsley J.; Ooi, Li-ling
CS Dipartimento di Scienze Chimiche, Universita di Padova, Padua, I-35131, Italy
SO Organometallics (2005), 24(17), 4153-4158
CODEN: ORGND7; ISSN: 0276-7333
PB American Chemical Society
DT Journal
LA English
CC 29-13 (Organometallic and Organometalloidal Compounds)
Section cross-reference(s): 25, 75
AB Novel palladium(II) complexes with oxazolin-2-ylidene ligands have been synthesized via direct reaction of palladium acetate and oxazolium salts, prepared in turn by alkylation of oxazole with Me iodide or benzylic bromides. The resulting complexes have been characterized and used as catalysts in Heck coupling reactions of aryl bromides, where they exhibit remarkable catalytic activity, higher than that of the closely related bis-imidazolin-2-ylidene and bis-benzothiazolin-2-ylidene complexes.
ST palladium oxazolinylidene complex prepn crystal mol structure catalyst Heck; Heck coupling aryl bromide olefin oxazolinylidene palladium catalyzed

- IT Arylation
Arylation catalysts
(Heck; simple route for preparation of palladium catalysts with oxazolinylidene ligands for Heck coupling reaction of aryl bromide with olefin)
- IT Crystal structure
Molecular structure
(of oxazolinylidene palladium complexes)
- IT Carbene complexes
RL: CAT (Catalyst use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(simple route for preparation of palladium catalysts with oxazolinylidene ligands for Heck coupling reaction of aryl bromide with olefin)
- IT Alkenes, reactions
Aryl bromides
RL: RCT (Reactant); RACT (Reactant or reagent)
(simple route for preparation of palladium catalysts with oxazolinylidene ligands for Heck coupling reaction of aryl bromide with olefin)
- IT 862899-94-3P 862900-14-9P
RL: CAT (Catalyst use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(crystal structure; simple route for preparation of palladium catalysts with oxazolinylidene ligands for Heck coupling reaction of aryl bromide with olefin)
- IT 862900-10-5P
RL: CAT (Catalyst use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(mol. structure; simple route for preparation of palladium catalysts with oxazolinylidene ligands for Heck coupling reaction of aryl bromide with olefin)
- IT 862900-06-9P 862900-08-1P 862900-12-7P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(simple route for preparation of palladium catalysts with oxazolinylidene ligands for Heck coupling reaction of aryl bromide with olefin)
- IT 91-13-4, α,α' -Dibromo-o-xylene 99-90-1, 1-(4-Bromophenyl)ethanone 100-39-0, Benzyl bromide 100-42-5, Styrene, reactions 104-92-7, 4-Bromoanisole 108-86-1, Bromobenzene, reactions 141-32-2, Butyl acrylate 288-42-6, Oxazole 626-15-3, α,α' -Dibromo-m-xylene 3433-80-5, 2-Bromobenzyl bromide 55401-97-3, Picolyl bromide
RL: RCT (Reactant); RACT (Reactant or reagent)
(simple route for preparation of palladium catalysts with oxazolinylidene ligands for Heck coupling reaction of aryl bromide with olefin)
- IT 862899-96-5P 862899-98-7P 862900-00-3P 862900-02-5P 862900-04-7P 862900-16-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(simple route for preparation of palladium catalysts with oxazolinylidene ligands for Heck coupling reaction of aryl bromide with olefin)
- IT 103-30-0P 538-65-8P 40458-52-4P 155867-03-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(simple route for preparation of palladium catalysts with oxazolinylidene ligands for Heck coupling reaction of aryl bromide with olefin)
- RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
- RE
- (1) Altomare, A; J Appl Crystallogr 1999, V32, P115 HCAPLUS
(2) Arduengo, A; J Am Chem Soc 1991, V113, P361 HCAPLUS
(3) Beletskaya, I; Chem Rev 2000, V100, P3009 HCAPLUS
(4) Blessing, R; Acta Crystallogr, Sect A 1995, V51, P33

- (5) Bourissou, D; Chem Rev 2000, V100, P39 HCAPLUS
 (6) Brase, S; Metal-Catalyzed Cross-Coupling Reactions 1998, P99 HCAPLUS
 (7) Calo, V; Eur J Org Chem 2000, P869 HCAPLUS
 (8) Calo, V; Tetrahedron Lett 2000, V41, P8973 HCAPLUS
 (9) Cavell, K; Coord Chem Rev 2004, V248, P671 HCAPLUS
 (10) Deady, L; Aust J Chem 1973, V26, P1949 HCAPLUS
 (11) Dorta, R; J Am Chem Soc 2003, V125, P10490 HCAPLUS
 (12) Farrugia, L; J Appl Crystallogr 1999, V32, P837
 (13) Fehlhhammer, W; Chem Rev 1993, V93, P1243 HCAPLUS
 (14) Frankel, R; J Organomet Chem 2001, V617-618, P530 HCAPLUS
 (15) Glas, H; J Organomet Chem 2001, V626, P100 HCAPLUS
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 (17) Harvey, J; Chem Commun 2003, P278 HCAPLUS
 (18) Herrmann, W; Adv Organomet Chem 2001, V48, P1 HCAPLUS
 (19) Herrmann, W; Angew Chem, Int Ed 2002, V41, P1290 HCAPLUS
 (20) Herrmann, W; Angew Chem, Int Ed Engl 1995, V34, P2371 HCAPLUS
 (21) Herrmann, W; Chem Eur J 1996, V2, P772 HCAPLUS
 (22) Herrmann, W; J Organomet Chem 1997, V530, P259 HCAPLUS
 (23) Herrmann, W; J Organomet Chem 1998, V557, P93 HCAPLUS
 (24) Huang, I; Organometallics 1999, V18, P2370
 (25) Kernbach, U; J Organomet Chem 1997, V541, P51 HCAPLUS
 (26) Lee, M; Organometallics 2004, V23, P976 HCAPLUS
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 (28) Nardelli, M; Comput Chem 1983, V7, P95 HCAPLUS
 (29) Nardelli, M; J Appl Crystallogr 1995, V28, P659 HCAPLUS
 (30) North, A; Acta Crystallogr 1968, VA24, P351
 (31) Ofele, K; J Organomet Chem 1993, V459, P177
 (32) Sheldrick, G; SHELXL-97, Program for the Refinement of Crystal Structures 1997
 (33) Xu, L; J Organomet Chem 2000, V598, P409 HCAPLUS
- IT 862899-96-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (simple route for preparation of palladium catalysts with oxazolinyldene ligands for Heck coupling reaction of aryl bromide with olefin)
- RN 862899-96-5 HCAPLUS
 CN Oxazolium, 3-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

L32 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:38696 HCAPLUS
 DN 128:147502
 ED Entered STN: 23 Jan 1998
 TI Energy beam-sensitive activator composition containing onium borate complex acid generator and base generator and curable, positively working, or imaging composition containing it
 IN Toba, Taisei; Tanaka, Yasuhiro; Yasuike, Madoka

PA Toyo Ink Mfg. Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 53 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C08F004-12
 ICS C08G008-00; C08G012-00; C08G059-72; C08G063-08; C08G065-00;
 C08G069-20; C08G073-00; C08G075-00; C08G077-08; C08G085-00;
 G03F007-004; G03F007-029
 CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)
 Section cross-reference(s): 38, 42

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10007709	A2	19980113	JP 1996-162782	19960624
PRAI JP 1996-162782		19960624		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 10007709	ICM	C08F004-12
	ICS	C08G008-00; C08G012-00; C08G059-72; C08G063-08; C08G065-00; C08G069-20; C08G073-00; C08G075-00; C08G077-08; C08G085-00; G03F007-004; G03F007-029

OS MARPAT 128:147502

AB The activator composition contains an energy beam-sensitive acid generator comprising a complex of an onium cation and a borate anion [BYmZn]⁻ (Y = F, Cl; Z = Ph substituted with ≥2 electron-withdrawing groups selected from F, cyano, NO₂, and CF₃; m = 0-3; n = 1-4; m + n = 4), an energy beam-sensitive base generator, and optionally a sensitizer. The curable composition contains the above activator composition, an acid-curable compound, and a base-curable compound. The pos.-working composition comprises the above acid generator composition and a compound changing affinity or solubility to a developer by an acid-catalyzed reaction. The imaging composition comprises the above acid generator composition and a pigment precursor which colors by reaction with an acid. The activator composition is applicable for moldings, sealings, resists, inks, coatings, adhesives, dental fillings, printing plates, and holog. recording materials, etc. The acid generator shows improved sensitivity.

ST onium borate complex photoacid generator catalyst; photochem catalyst
 onium borate acid generator; pos working curable compn photoacid
 generator; imaging photochem acid generator onium borate

IT Light-sensitive materials

Photoimaging materials

(curable, pos.-working, or imaging compns. containing onium borate complex
 energy beam-sensitive activator)

IT Epoxy resins, reactions

RL: RCT (Reactant); TEM (Technical or engineered material use); RACT
 (Reactant or reagent); USES (Uses)

(curing of; curable, pos.-working, or imaging compns. containing onium
 borate complex energy beam-sensitive activator)

IT Catalysts

(photochem.; curable, pos.-working, or imaging compns. containing onium
 borate complex energy beam-sensitive activator)

IT Coating materials

(photocurable; curable, pos.-working, or imaging compns. containing onium
 borate complex energy beam-sensitive activator)

IT Resists

(pos.-working; curable, pos.-working, or imaging compns. containing onium borate complex energy beam-sensitive activator)

IT 87261-04-9, Poly(p-tert-butoxycarbonyloxystyrene)
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (binder, development of; curable, pos.-working, or imaging compns. containing onium borate complex energy beam-sensitive activator)

IT 548-62-9, Crystal Violet
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (colorant precursor; curable, pos.-working, or imaging compns. containing onium borate complex energy beam-sensitive activator)

IT 25085-98-7, Bakelite ERL 4221
 RL: TEM (Technical or engineered material use); USES (Uses)
 (curable, pos.-working, or imaging compns. containing onium borate complex energy beam-sensitive activator)

IT 153606-14-5, Diphenyliodonium tetrakis(pentafluorophenyl)borate
 181120-29-6 193957-53-8 193957-56-1 193957-57-2 193957-58-3
 193957-59-4 194293-43-1 194352-69-7 194352-70-0 194352-77-7
 194470-23-0 194473-11-5 194473-92-2 194474-32-3 194479-54-4
 194479-56-6 194479-70-4 194479-97-5 195517-23-8 195620-34-9
 195620-37-2 197174-96-2, N-Benzylthiazolium
 tetrakis(pentafluorophenyl)borate 197174-99-5, N-(p-Cyanobenzyl)thiazolium tetrakis(pentafluorophenyl)borate 197175-94-3,
 2-Mercapto-3-phenacylthiazolium tetrakis(pentafluorophenyl)borate
 198641-10-0 198641-11-1 198641-12-2 198641-13-3 198641-15-5
 198641-23-5 198641-24-6 198641-28-0 198641-29-1 **198641-31-5**
 198641-33-7 198641-35-9 198641-37-1 198641-39-3 198641-40-6
 198641-41-7 200573-03-1 200573-20-2 200573-27-9 200720-79-2
 200720-84-9 202058-83-1
 RL: CAT (Catalyst use); USES (Uses)
 (photoacid generator; curable, pos.-working, or imaging compns. containing onium borate complex energy beam-sensitive activator)

IT 133795-10-5 133795-18-3 202213-89-6
 RL: CAT (Catalyst use); USES (Uses)
 (photobase generator; curable, pos.-working, or imaging compns. containing onium borate complex energy beam-sensitive activator)

IT 65-61-2, Acridine Orange 120-12-7, Anthracene, uses 781-43-1,
 9,10-Dimethylantracene 1499-10-1, 9,10-Diphenylantracene 1564-64-3,
 9-Bromoanthracene 2390-54-7, Setoflavin T 6359-38-2, Benzoflavin
 10075-85-1, 9,10-Bis(phenylethynyl)anthracene 80034-24-8,
 1,8-Dimethoxy-9,10-bis(phenylethynyl)anthracene
 RL: MOA (Modifier or additive use); USES (Uses)
 (sensitizer; curable, pos.-working, or imaging compns. containing onium borate complex energy beam-sensitive activator)

IT **198641-31-5**
 RL: CAT (Catalyst use); USES (Uses)
 (photoacid generator; curable, pos.-working, or imaging compns. containing onium borate complex energy beam-sensitive activator)

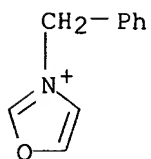
RN 198641-31-5 HCAPLUS

CN Oxazolium, 3-(phenylmethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI)
 (CA INDEX NAME)

CM 1

CRN 198641-30-4

CMF C10 H10 N O

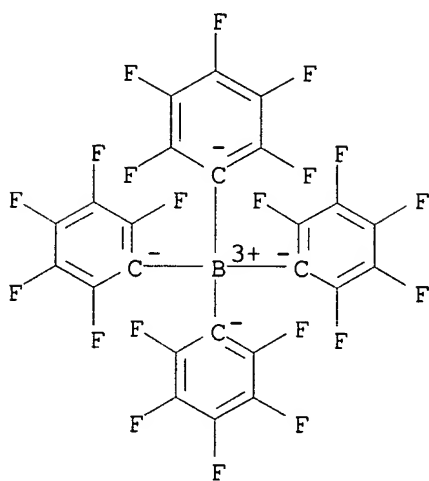


CM 2

CRN 47855-94-7

CMF C24 B F20

CCI CCS



L32 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:25410 HCAPLUS
 DN 128:128759
 ED Entered STN: 16 Jan 1998
 TI Radiation-sensitive acid generator compositions, curable compositions,
 positively working compositions, and image recording compositions thereof
 IN Toba, Yasumasa; Tanaka, Yasuhiro; Yasuike, Madoka; Ichimura, Kunihiro
 PA Toyo Ink Mfg. Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 51 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C08F004-12
 ICS C08G008-00; C08G012-00; C08G059-72; C08G063-08; C08G065-00;
 C08G069-20; C08G073-00; C08G075-00; C08G077-08; C08G085-00;
 G03F007-004; G03F007-029
 CC 37-6 (Plastics Manufacture and Processing)
 Section cross-reference(s): 35, 38, 42, 67, 74
 FAN.CNT 1

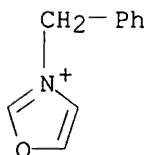
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10001508	A2	19980106	JP 1996-155068	19960617
PRAI JP 1996-155068		19960617		

CLASS

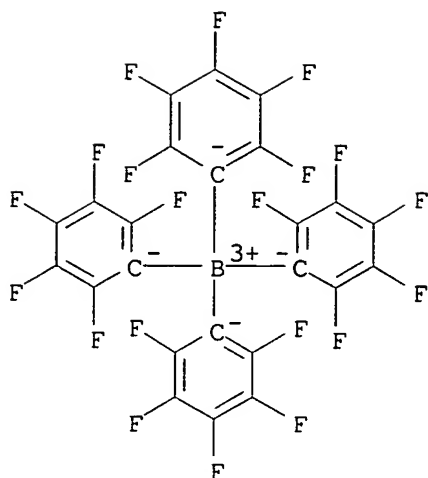
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 10001508	ICM ICS	C08F004-12 C08G008-00; C08G012-00; C08G059-72; C08G063-08; C08G065-00; C08G069-20; C08G073-00; C08G075-00; C08G077-08; C08G085-00; G03F007-004; G03F007-029
OS	MARPAT 128:128759	
AB	The acid generator compns. contain (A) radiation-sensitive acid generators comprising complexes of onium cations and borate anions [BYmZn]- (Y = F, Cl; Z = Ph which is substituted with ≥ 2 electron-accepting groups selected from F, CN, NO ₂ , and CF ₃ ; m = 0-3; n = 1-4; m + n = 4), (B) agents which breed acids by reacting with the acids from A, and optionally (C) sensitizers. The pos.-working compns. are composed of the acid generator compns. and (D) acid-curable compds or (E) compds. which become more affinitive or soluble to developers by reactions using acidic catalysts. The image recording compns. are composed of the acid generator compds. and (F) pigment precursors which are colored by reacting with the generated acids. Application to moldings, sealings, resists, inks, coatings, adhesives, copying machines, and printers is indicated. Thus, an Al plate was coated with a composition comprising dimethylphenacylsulfonium tetrakis(pentafluorophenyl)borate 3, p-MeC ₆ H ₄ O ₃ SOCH ₂ CMe(OCMe)CO ₂ CMe ₃ 3, and Bakelite ERL 4221 100 parts and exposed to UV to give a tack-free coating.	
ST	onium borate complex acid generator catalyst; methylphenacylsulfonium pentafluorophenyl borate acid generator catalyst; photochem catalyst onium borate complex; org acid ester photochem catalyst promoter; radiation sensitive catalyst onium borate complex; epoxy resin coating photopolymn catalyst promoter; pos resist onium borate complex catalyst; photosensitive printing plate onium borate complex	
IT	Epoxy resins, uses RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses) (curing of; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)	
IT	Catalysts (photochem.; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)	
IT	Coating materials (photocurable; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)	
IT	Printing plates (photosensitive; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)	
IT	Resists (pos.-working; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)	
IT	153606-14-5, Diphenyliodonium tetrakis(pentafluorophenyl)borate 153760-74-8, Triphenylsulfonium tetrakis(pentafluorophenyl)borate 181120-29-6, N-Benzylpyridinium tetrakis(pentafluorophenyl)borate 193957-53-8, Dimethylphenacylsulfonium tetrakis(pentafluorophenyl)borate 193957-56-1, Dimethylbenzylsulfonium tetrakis(pentafluorophenyl)borate 193957-57-2, Dimethyl(p-cyanobenzyl)sulfonium tetrakis(pentafluorophenyl)borate 193957-58-3, Dimethylbenzylsulfonium tetrakis[3,5-bis(trifluoromethyl)phenyl]borate 193957-59-4	

194293-43-1, Triphenylsulfoxonium tetrakis(pentafluorophenyl)borate
 194352-69-7, Di(2-furyl)iodonium tetrakis(pentafluorophenyl)borate
 194352-70-0, Di(2-thienyl)iodonium tetrakis(pentafluorophenyl)borate
 194352-77-7, Di(2-thienyl)iodonium tetrakis[3,5-bis(trifluoromethyl)phenyl]borate 194470-21-8 194470-23-0,
 Dimethylbenzylsulfoxonium tetrakis[3,5-bis(trifluoromethyl)phenyl]borate
 194470-24-1, Dimethylbenzylsulfoxonium tetrakis(pentafluorophenyl)borate
 194473-11-5, N-(p-Cyanobenzyl)pyridinium tetrakis(pentafluorophenyl)borate
 194473-92-2, 4-Cyano-1-phenacylpyridinium tetrakis(pentafluorophenyl)borate
 194474-32-3, 2-Methyl-1-ethoxypyridinium tetrakis(pentafluorophenyl)borate
 194479-54-4, Triphenylbenzylphosphonium tetrakis(pentafluorophenyl)borate 194479-56-6, Triphenyl(p-cyanobenzyl)phosphonium tetrakis(pentafluorophenyl)borate 194479-70-4,
 Triphenyl(p-cyanophenacyl)phosphonium tetrakis(pentafluorophenyl)borate
 194479-97-5, Trimethylphenacylphosphonium tetrakis(pentafluorophenyl)borate
 195517-23-8, N-Benzylisoquinolinium tetrakis(pentafluorophenyl)borate
 195620-34-9, N-Benzylquinolinium tetrakis(pentafluorophenyl)borate
 195620-37-2, 4-Cyano-1-phenacylquinolinium tetrakis(pentafluorophenyl)borate
 197174-96-2, N-Benzylthiazolium tetrakis(pentafluorophenyl)borate
 197174-99-5, N-(p-Cyanobenzyl)thiazolium tetrakis(pentafluorophenyl)borate
 197175-94-3, 2-Mercapto-3-phenacylthiazolium tetrakis(pentafluorophenyl)borate
 198641-10-0, Diphenylbenzylsulfonium tetrakis(pentafluorophenyl)borate
 198641-11-1, Dimethyl(p-cyanophenacyl)sulfonium tetrakis(pentafluorophenyl)borate
 198641-12-2, Dimethylallylsulfonium tetrakis(pentafluorophenyl)borate
 198641-13-3, Diphenylmethoxysulfonium tetrakis(pentafluorophenyl)borate
 198641-15-5, Diphenylphenoxysulfonium tetrakis(pentafluorophenyl)borate
 198641-16-6, Diphenylbenzylsulfoxonium tetrakis(pentafluorophenyl)borate
 198641-18-8, Methylphenylbenzylsulfoxonium tetrakis(pentafluorophenyl)borate
 198641-20-2, Dimethyl(p-cyanobenzyl)sulfoxonium tetrakis(pentafluorophenyl)borate
 198641-22-4, Dimethyl(p-cyanophenacyl)sulfoxonium tetrakis(pentafluorophenyl)borate 198641-23-5,
 Trimethylbenzylphosphonium tetrakis(pentafluorophenyl)borate
 198641-24-6, Methyl-diphenylbenzylphosphonium tetrakis(pentafluorophenyl)borate
 198641-28-0, N-(p-Cyanobenzyl)quinolinium tetrakis(pentafluorophenyl)borate
 198641-29-1, N-(p-Cyanobenzyl)isoquinolinium tetrakis(pentafluorophenyl)borate
 198641-31-5, N-Benzylloxazolium tetrakis(pentafluorophenyl)borate
 198641-33-7, N-(p-Cyanobenzyl)oxazolium tetrakis(pentafluorophenyl)borate
 198641-35-9, 2-Chloro-3-benzhydryloxazolium tetrakis(pentafluorophenyl)borate
 198641-37-1, Bis[2-(3-methyl)furyl]iodonium tetrakis(pentafluorophenyl)borate
 198641-39-3, Bis[2-(3-methyl)thienyl]iodonium tetrakis(pentafluorophenyl)borate 198641-40-6,
 Bis[p-tert-butylphenyl]iodonium tetrakis(pentafluorophenyl)borate
 198641-41-7, 2-Methyl-1-ethoxypyridinium tetrakis[3,5-bis(trifluoromethyl)phenyl]borate 200573-03-1,
 Tetramethylenphenacylsulfonium tetrakis(pentafluorophenyl)borate
 200573-20-2, 2-Methyl-1-ethoxyquinolinium tetrakis(pentafluorophenyl)borate
 200573-24-6 200573-26-8 200573-27-9, (η⁵-2,4-Cyclopentadienyl-1-yl)[(1,2,3,4,5,6-η)-(1-methylethyl)benzene]iron tetrakis[3,5-bis(trifluoromethyl)phenyl]borate 200720-84-9, 2-Methyl-1-ethoxyisoquinolinium tetrakis(pentafluorophenyl)borate 202058-83-1
 RL: CAT (Catalyst use); USES (Uses)
 (acid generator; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)
 IT 87261-04-9, Poly(p-tert-butoxycarbonyloxystyrene)
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (binder, developing of; radiation-sensitive catalyst compns. containing

- onium-borate complexes and promoters and their pos.-working and image recording compns.)
- IT 548-62-9, Crystal Violet
 RL: MOA (Modifier or additive use); USES (Uses)
 (colorant precursor; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)
- IT 25085-98-7, Bakelite ERL 4221
 RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
 (curing of; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)
- IT 138806-47-0 168281-30-9 202058-54-6 202058-60-4
 RL: CAT (Catalyst use); USES (Uses)
 (promoter; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)
- IT 65-61-2, Acridine Orange 120-12-7, Anthracene, uses 781-43-1, 9,10-Dimethylantracene 1499-10-1, 9,10-Diphenylantracene 1564-64-3, 9-Bromoanthracene 2390-54-7, Setoflavin T 6359-38-2, Benzoflavin 10075-85-1, 9,10-Bis(phenylethynyl)anthracene 80034-24-8, 1,8-Dimethoxy-9,10-bis(phenylethynyl)anthracene
 RL: MOA (Modifier or additive use); USES (Uses)
 (sensitizer; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)
- IT 198641-31-5, N-Benzyloxazolium tetrakis(pentafluorophenyl)borate
 RL: CAT (Catalyst use); USES (Uses)
 (acid generator; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)
- RN 198641-31-5 HCAPLUS
- CN Oxazolium, 3-(phenylmethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI)
 (CA INDEX NAME)
- CM 1
- CRN 198641-30-4
- CMF C10 H10 N O



- CM 2
- CRN 47855-94-7
- CMF C24 B F20
- CCI CCS



L32 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:784233 HCAPLUS
 DN 128:76169
 ED Entered STN: 15 Dec 1997
 TI Radically polymerizable compositions and their cured products
 IN Toba, Yasumasa
 PA Toyo Ink Mfg. Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 35 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C08F004-52
 ICS C08F002-46; C08F020-28
 CC 37-6 (Plastics Manufacture and Processing)
 Section cross-reference(s): 42

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09316117	A2	19971209	JP 1996-139823	19960603
PRAI JP 1996-139823		19960603		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 09316117	ICM	C08F004-52
	ICS	C08F002-46; C08F020-28

OS MARPAT 128:76169

AB The compns. contain (a) polymerization initiators of onium borate complexes made

of onium cations and (BYmZn)- (Y = F, Cl; Z = Ph substituted by ≥ 2 groups selected from F, CN, NO₂, and CF₃; m = 0-3; n = 1-4; m + n = 4) and (b) radically polymerizable compds. The polymerization initiators have good solubility in organic materials and resins and generate acids (byproducts) in compds. during polymerization, which are removed by heating. The cured products

of the compns. are useful for molding resins, casting resins, sealants, and resists, etc. Thus, a composition prepared from 3 parts dimethylphenacylsulfonium tetrakis(pentafluorophenyl)borate (polymerization initiators) and 100 parts pentaerythritol triacrylate was applied on an Al plate and UV-irradiated to give a cured membrane without tackiness, which

was heated at 150° to give an acid-free composition

ST radical polymn cured product byproduct free; sulfonium borate initiator
erythritol acrylate photopolymn

IT Coating materials
(UV-curable; radical polymerizable compns. containing generated
acid-removable polymerization initiators for)

IT Borates
RL: CAT (Catalyst use); USES (Uses)
(complexes, polymerization initiators; radical polymerizable compns.
containing
generated acid-removable polymerization initiators)

IT Polymerization catalysts
(radical; radical polymerizable compns. containing generated acid-removable
polymerization initiators)

IT 153606-14-5, Diphenyliodonium tetrakis(pentafluorophenyl)borate
153760-74-8 181120-29-6 193957-53-8 193957-56-1 193957-57-2
193957-58-3 193957-59-4 194293-43-1 194352-69-7 194352-70-0
194352-77-7 194470-21-8 194470-23-0 194470-24-1 194473-11-5
194473-66-0 194474-32-3 194479-54-4 194479-56-6 194479-70-4
194479-97-5 195517-23-8 195620-34-9 197174-96-2, N-Benzylthiazolium
tetrakis(pentafluorophenyl)borate 197174-99-5, N-(p-
Cyanobenzyl)thiazolium tetrakis(pentafluorophenyl)borate 197175-94-3,
2-Mercapto-3-phenacylthiazolium tetrakis(pentafluorophenyl)borate
198641-10-0 198641-11-1 198641-12-2 198641-13-3 198641-15-5
198641-16-6 198641-18-8 198641-20-2 198641-22-4 198641-23-5
198641-24-6 198641-28-0 198641-29-1 **198641-31-5**
198641-33-7 198641-35-9 198641-37-1 198641-39-3 198641-40-6
198641-41-7 200573-03-1 200573-19-9 200573-20-2 200573-22-4
200573-23-5 200573-24-6 200573-26-8 200573-27-9
RL: CAT (Catalyst use); USES (Uses)
(polymerization initiators; radical polymerizable compns. containing
generated
acid-removable polymerization initiators)

IT 9003-77-4P, 2-Ethylhexyl acrylate homopolymer 25053-15-0P, Diallyl
phthalate homopolymer 25067-05-4P, Glycidyl methacrylate homopolymer
25101-18-2P, Diethylene glycol dimethacrylate homopolymer 25719-51-1P,
2-Ethylhexyl methacrylate homopolymer 26022-14-0P, 2-Hydroxyethyl
acrylate polymer 26426-04-0P, Trimethylolpropane trimethacrylate
homopolymer 27775-58-2P, Pentaerythritol triacrylate homopolymer
27813-91-8P, 1,6-Hexanediol dimethacrylate homopolymer 28158-16-9P,
Ethylene glycol diacrylate homopolymer 29323-03-3P 36446-02-3P,
Trimethylolpropane triacrylate homopolymer 57592-66-2P, Pentaerythritol
tetraacrylate homopolymer 57592-67-3P, 1,6-Hexanediol diacrylate
homopolymer 67653-78-5P, Dipentaerythritol hexaacrylate homopolymer
94457-89-3P, Polypropylene glycol diacrylate homopolymer 108065-49-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(radical polymerizable compns. containing generated acid-removable
polymerization
initiators)

IT 65-61-2, Acridine orange 90-93-7, 4,4'-Diethylaminobenzophenone
120-12-7, Anthracene, uses 448-61-3, 2,4,6-Triphenylpyrylium
tetrafluoroborate 492-22-8, Thioxanthone 917-23-7,
Tetraphenylporphyrin 1582-78-1 6285-94-5 11121-48-5, Rose Bengal
17372-87-1, Eosin Y 25470-94-4 38215-36-0, 3-(2-Benzothiazolyl)-7-
(diethylamino)coumarin 63226-13-1, 3,3'-Carbonyl bis[7-
(diethylamino)coumarin] 200573-28-0
RL: CAT (Catalyst use); USES (Uses)
(sensitizers; radical polymerizable compns. containing generated
acid-removable polymerization initiators)

IT **198641-31-5**

RL: CAT (Catalyst use); USES (Uses)

(polymerization initiators; radical polymerizable compns. containing generated

acid-removable polymerization initiators)

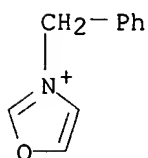
RN 198641-31-5 HCAPLUS

CN Oxazolium, 3-(phenylmethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI)
(CA INDEX NAME)

CM 1

CRN 198641-30-4

CMF C10 H10 N O

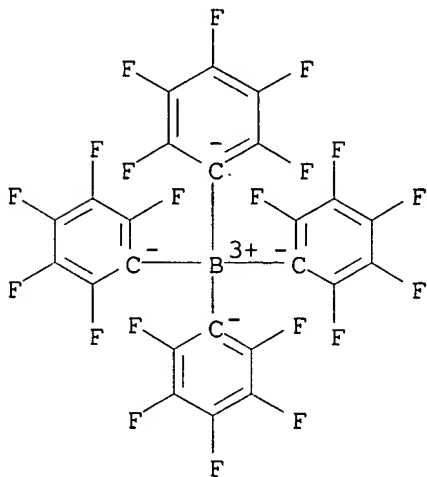


CM 2

CRN 47855-94-7

CMF C24 B F20

CCI CCS



L32 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:762055 HCAPLUS

DN 128:95393

ED Entered STN: 06 Dec 1997

TI Positive-working radiation-sensitive composition using onium borate complex as acid-generating agent

IN Toba, Yasumasa; Tanaka, Yasuhiro; Yasuike, Madoka

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 33 pp.

CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM G03F007-039
 ICS G03F007-00; G03F007-004; H01L021-027
 CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09304931	A2	19971128	JP 1996-117204	19960513
	JP 3605939	B2	20041222		
PRAI	JP 1996-117204		19960513		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 09304931	ICM	G03F007-039
	ICS	G03F007-00; G03F007-004; H01L021-027

OS MARPAT 128:95393

AB The title composition contains an energy ray-sensitive acid-generating agent of an onium borate complex comprising an onium cation and a borate anion (BYmZn)- (Y = F or Cl; Z = Ph substituted for ≥ 2 electron-attracting groups selected from F, CN, NO₂, and CF₃; m = 0-3; n = 1-4, m + n = 4) and a compound of which the affinity for or solubility in developing solution increases upon the acid-catalyzed reaction. The composition

shows high sensitivity in broader wavelength region and high contrast. Thus, an energy ray-sensitive composition containing poly(p-tert-butoxycarbonyloxystyrene) and dimethyphenacylsulfonium tetrakis(pentafluorophenyl)borate was coated on an Al substrate to give a presensitized plate.

ST onium borate acid generator resist; presensitized lithog plate onium borate

IT Lithographic plates

(presensitized; radiation-sensitive composition containing onium borate as acid generator)

IT Resists

(radiation-sensitive, pos.-working; radiation-sensitive composition containing onium borate as acid generator)

IT 153606-14-5, Diphenyliodonium tetrakis(pentafluorophenyl)borate
 153760-74-8 181120-29-6 193957-53-8 193957-56-1 193957-57-2
 193957-58-3 193957-59-4 194293-43-1 194352-69-7 194352-70-0
 194352-77-7 194470-21-8 194470-23-0 194470-24-1 194473-11-5
 194473-92-2 194474-32-3 194479-54-4 194479-56-6 194479-70-4
 194479-97-5 195517-23-8 195620-34-9 195620-37-2 197174-96-2,
 N-Benzylthiazolium tetrakis(pentafluorophenyl)borate 197174-99-5,
 N-(p-Cyanobenzylthiazolium) tetrakis(pentafluorophenyl)borate
 197175-94-3, 2-Mercapto-3-phenacylthiazolium tetrakis(pentafluorophenyl)bo
 rate 198641-10-0 198641-11-1 198641-12-2 198641-13-3 198641-15-5
 198641-16-6 198641-18-8 198641-20-2 198641-22-4 198641-23-5
 198641-24-6 198641-28-0 198641-29-1 **198641-31-5**
 198641-33-7 198641-35-9 198641-37-1 198641-39-3 198641-40-6
 198641-41-7 200573-20-2 200573-27-9 200720-79-2 200720-84-9
 201011-30-5

RL: DEV (Device component use); USES (Uses)

(radiation-sensitive composition containing onium borate as acid generator)

IT **198641-31-5**

RL: DEV (Device component use); USES (Uses)

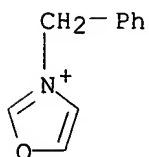
(radiation-sensitive composition containing onium borate as acid generator)

RN 198641-31-5 HCAPLUS
 CN Oxazolium, 3-(phenylmethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI)
 (CA INDEX NAME)

CM 1

CRN 198641-30-4

CMF C10 H10 N O

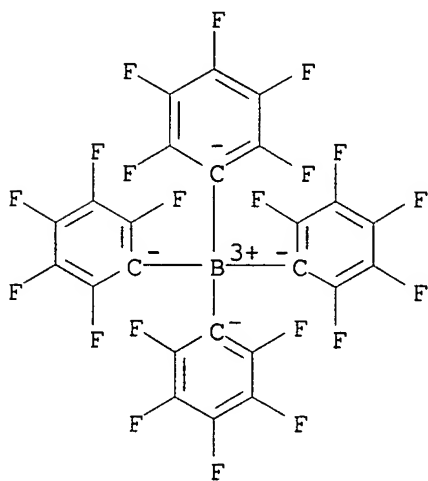


CM 2

CRN 47855-94-7

CMF C24 B F20

CCI CCS



L32 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:681693 HCAPLUS
 DN 127:364175
 ED Entered STN: 27 Oct 1997
 TI Actinic ray-sensitive imaging composition, image formation medium and
 method of using same
 IN Toba, Yasumasa; Tanaka, Yasuhiro; Yasuike, Madoka
 PA Toyo Ink Mfg. Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 46 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM B41M005-36
 ICS B41M005-26; G03F007-004; G03F007-029; G03F007-032; G03F007-26

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09263063	A2	19971007	JP 1996-124382	19960520
PRAI	JP 1996-7973	A	19960122		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 09263063	ICM	B41M005-36
	ICS	B41M005-26; G03F007-004; G03F007-029; G03F007-032; G03F007-26

OS MARPAT 127:364175

AB The title composition comprises a onium cation, an actinic ray-sensitive acid generator based on a borate [BYmZn]- (Y = F, Cl; Z = Ph substituted with 2 electron attractive groups of F, cyano, nitro, trifluoromethyl; m = 0-3; n = 1-4; m + n = 4), a dye precursor capable of giving color by reacting with the generated acid, and a sensitizer or a polymer binder. Image forming medium and method using the composition are also claimed.

ST actinic ray sensitive imaging compn

IT Electrophotographic apparatus

Printing apparatus

(actinic ray-sensitive imaging composition, image formation medium and method of using same for)

IT Polyvinyl butyrals

RL: TEM (Technical or engineered material use); USES (Uses)

(binder contained in actinic ray-sensitive imaging composition)

IT 153606-14-5, Diphenyl iodonium tetrakis(pentafluorophenyl) borate
 153760-74-8 181120-29-6 193957-53-8 193957-57-2 193957-58-3
 193957-59-4 194293-43-1 194352-69-7 194352-70-0 194352-77-7
 194470-21-8 194470-23-0 194470-24-1 194473-11-5 194473-92-2
 194474-32-3 194479-54-4 194479-56-6 194479-97-5 195517-23-8
 195620-34-9 195620-37-2 197174-96-2, N-Benzyl thiazolium
 tetrakis(pentafluorophenyl) borate 197174-99-5, N-(p-Cyano benzyl)
 thiazolium tetrakis(pentafluorophenyl) borate 197175-94-3,
 2-Mercapto-3-phenacyl thiazolium tetrakis(pentafluorophenyl) borate
 198641-10-0 198641-11-1 198641-12-2 198641-13-3 198641-15-5
 198641-16-6 198641-18-8 198641-20-2 198641-22-4 198641-23-5
 198641-24-6 198641-26-8 198641-28-0 198641-29-1 198641-31-5
 198641-33-7 198641-35-9 198641-37-1 198641-39-3 198641-40-6
 198641-41-7

RL: TEM (Technical or engineered material use); USES (Uses)

(acid generator contained in actinic ray-sensitive imaging composition)

IT 1552-42-7, Crystal violet lactone

RL: TEM (Technical or engineered material use); USES (Uses)

(dye precursor contained in actinic ray-sensitive imaging composition)

IT 198641-31-5

RL: TEM (Technical or engineered material use); USES (Uses)

(acid generator contained in actinic ray-sensitive imaging composition)

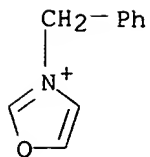
RN 198641-31-5 HCAPLUS

CN Oxazolium, 3-(phenylmethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI)
 (CA INDEX NAME)

CM 1

CRN 198641-30-4

CMF C10 H10 N O

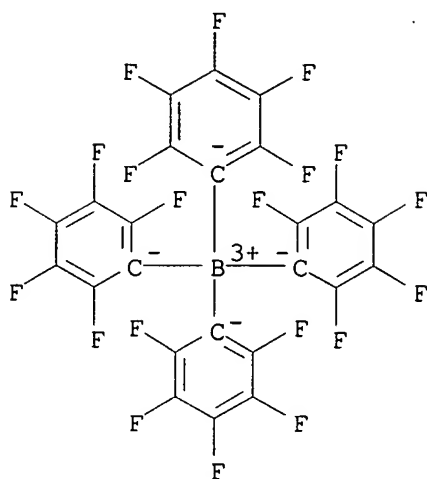


CM 2

CRN 47855-94-7

CMF C24 B F20

CCI CCS



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L33 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:556384 HCAPLUS

DN 143:229974

TI A Simple Route to Novel Palladium(II) Catalysts with Oxazolin-2-ylidene Ligands

AU Tubaro, Cristina; Biffis, Andrea; Basato, Marino; Benetollo, Franco; Cavell, Kingsley J.; Ooi, Li-ling

CS Dipartimento di Scienze Chimiche, Universita di Padova, Padua, I-35131, Italy

SO Organometallics (2005), 24(17), 4153-4158

CODEN: ORGND7; ISSN: 0276-7333

PB American Chemical Society

DT Journal

LA English

AB Novel palladium(II) complexes with oxazolin-2-ylidene ligands have been synthesized via direct reaction of palladium acetate and oxazolium salts, prepared in turn by alkylation of oxazole with Me iodide or benzylic bromides. The resulting complexes have been characterized and used as catalysts in Heck coupling reactions of aryl bromides, where they exhibit remarkable catalytic activity, higher than that of the closely related bis-imidazolin-2-ylidene and bis-benzothiazolin-2-ylidene complexes.

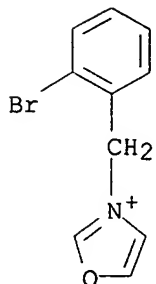
IT 862899-98-7P 862900-02-5P 862900-04-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(simple route for preparation of palladium catalysts with oxazolinylidene ligands for Heck coupling reaction of aryl bromide with olefin)

RN 862899-98-7 HCAPLUS

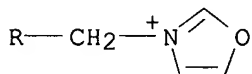
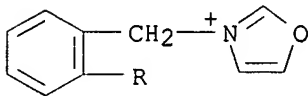
CN Oxazolium, 3-[(2-bromophenyl)methyl]-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 862900-02-5 HCAPLUS

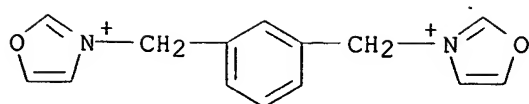
CN Oxazolium, 3,3'-[1,2-phenylenebis(methylene)]bis-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

RN 862900-04-7 HCAPLUS

CN Oxazolium, 3,3'-[1,3-phenylenebis(methylene)]bis-, dibromide (9CI) (CA INDEX NAME)

●2 Br⁻

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Altomare, A	1999	32	115	J Appl Crystallogr	HCAPLUS
Arduengo, A	1991	113	361	J Am Chem Soc	HCAPLUS
Beletskaya, I	2000	100	3009	Chem Rev	HCAPLUS
Blessing, R	1995	51	33	Acta Crystallogr, Se	
Bourissou, D	2000	100	39	Chem Rev	HCAPLUS
Brase, S	1998		99	Metal-Catalyzed Cros	HCAPLUS
Calo, V	2000		869	Eur J Org Chem	HCAPLUS
Calo, V	2000	41	8973	Tetrahedron Lett	HCAPLUS
Cavell, K	2004	248	671	Coord Chem Rev	HCAPLUS
Deady, L	1973	26	1949	Aust J Chem	HCAPLUS
Dorta, R	2003	125	10490	J Am Chem Soc	HCAPLUS
Farrugia, L	1999	32	837	J Appl Crystallogr	
Fehlhammer, W	1993	93	1243	Chem Rev	HCAPLUS
Frankel, R	2001	617-6	530	J Organomet Chem	HCAPLUS
Glas, H	2001	626	100	J Organomet Chem	HCAPLUS
Grundemann, S	2002		2163	J Chem Soc, Dalton T	
Harvey, J	2003		278	Chem Commun	HCAPLUS
Herrmann, W	2001	48	1	Adv Organomet Chem	HCAPLUS
Herrmann, W	2002	41	1290	Angew Chem, Int Ed	HCAPLUS
Herrmann, W	1995	34	2371	Angew Chem, Int Ed E	HCAPLUS
Herrmann, W	1996	2	772	Chem Eur J	HCAPLUS
Herrmann, W	1997	530	259	J Organomet Chem	HCAPLUS
Herrmann, W	1998	557	93	J Organomet Chem	HCAPLUS
Huang, I	1999	18	2370	Organometallics	
Kernbach, U	1997	541	51	J Organomet Chem	HCAPLUS
Lee, M	2004	23	976	Organometallics	HCAPLUS
Magill, M	2001	617-6	546	J Organomet Chem	
Nardelli, M	1983	7	95	Comput Chem	HCAPLUS
Nardelli, M	1995	28	659	J Appl Crystallogr	HCAPLUS
North, A	1968	A24	351	Acta Crystallogr	
Ofele, K	1993	459	177	J Organomet Chem	
Sheldrick, G	1997			SHELXL-97, Program f	
Xu, L	2000	598	409	J Organomet Chem	HCAPLUS

L33 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:38696 HCAPLUS

DN 128:147502

TI Energy beam-sensitive activator composition containing onium borate complex acid generator and base generator and curable, positively working, or imaging composition containing it

IN Toba, Taisei; Tanaka, Yasuhiro; Yasuike, Madoka

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 53 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10007709	A2	19980113	JP 1996-162782	19960624
PRAI	JP 1996-162782		19960624		
OS	MARPAT 128:147502				

AB The activator composition contains an energy beam-sensitive acid generator comprising a complex of an onium cation and a borate anion [BYmZn]⁻ (Y = F, Cl; Z = Ph substituted with ≥2 electron-withdrawing groups selected from F, cyano, NO₂, and CF₃; m = 0-3; n = 1-4; m + n = 4), an energy beam-sensitive base generator, and optionally a sensitizer. The curable composition contains the above activator composition, an acid-curable compound, and a base-curable compound. The pos.-working composition comprises

the

above acid generator composition and a compound changing affinity or solubility to a

developer by an acid-catalyzed reaction. The imaging composition comprises the above acid generator composition and a pigment precursor which colors by reaction with an acid. The activator composition is applicable for moldings, sealings, resists, inks, coatings, adhesives, dental fillings, printing plates, and holog. recording materials, etc. The acid generator shows improved sensitivity.

IT 198641-33-7

RL: CAT (Catalyst use); USES (Uses)

(photoacid generator; curable, pos.-working, or imaging compns. containing onium borate complex energy beam-sensitive activator)

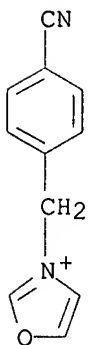
RN 198641-33-7 HCAPLUS

CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-)
(9CI) (CA INDEX NAME)

CM 1

CRN 198641-32-6

CMF C11 H9 N2 O

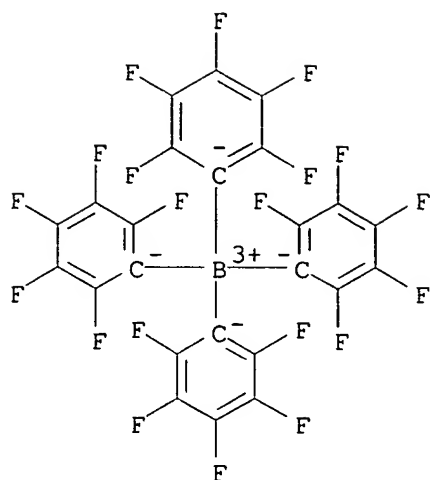


CM 2

CRN 47855-94-7

CMF C24 B F20

CCI CCS



L33 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:25410 HCAPLUS

DN 128:128759

TI Radiation-sensitive acid generator compositions, curable compositions, positively working compositions, and image recording compositions thereof

IN Toba, Yasumasa; Tanaka, Yasuhiro; Yasuike, Madoka; Ichimura, Kunihiro

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 51 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10001508	A2	19980106	JP 1996-155068	19960617
PRAI	JP 1996-155068		19960617		

OS MARPAT 128:128759

AB The acid generator compns. contain (A) radiation-sensitive acid generators comprising complexes of onium cations and borate anions [BYmZn]⁻ (Y = F, Cl; Z = Ph which is substituted with ≥2 electron-accepting groups selected from F, CN, NO₂, and CF₃; m = 0-3; n = 1-4; m + n = 4), (B) agents which breed acids by reacting with the acids from A, and optionally (C) sensitizers. The pos.-working compns. are composed of the acid generator compns. and (D) acid-curable compds or (E) compds. which become more affinitive or soluble to developers by reactions using acidic catalysts. The image recording compns. are composed of the acid generator compds. and (F) pigment precursors which are colored by reacting with the generated acids. Application to moldings, sealings, resists, inks, coatings, adhesives, copying machines, and printers is indicated. Thus, an Al plate was coated with a composition comprising dimethylphenacylsulfonium tetrakis(pentafluorophenyl)borate 3, p-MeC₆H₄O₃SOCH₂CMe(OCMe)CO₂CMe₃ 3, and Bakelite ERL 4221 100 parts and exposed to UV to give a tack-free coating.

IT **198641-33-7**, N-(p-Cyanobenzyl)oxazolium
tetrakis(pentafluorophenyl)borate **200573-26-8**

RL: CAT (Catalyst use); USES (Uses)

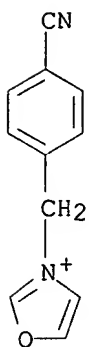
(acid generator; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)

RN 198641-33-7 HCAPLUS
 CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-)
) (9CI) (CA INDEX NAME)

CM 1

CRN 198641-32-6

CMF C11 H9 N2 O

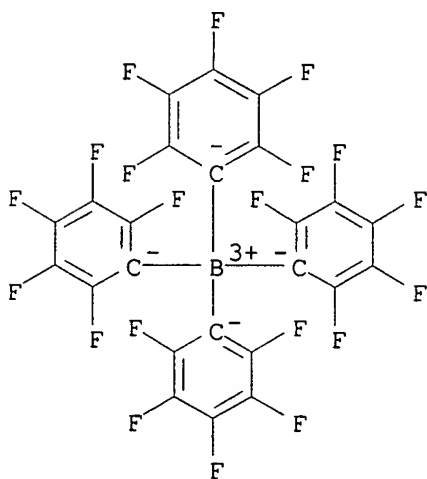


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CRN 47855-94-7

CMF C24 B F20

CCI CCS

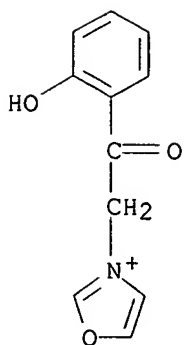


RN 200573-26-8 HCAPLUS
 CN Oxazolium, 3-[2-(2-hydroxyphenyl)-2-oxoethyl]-, tetrakis(pentafluorophenyl)borate(1-)
) (9CI) (CA INDEX NAME)

CM 1

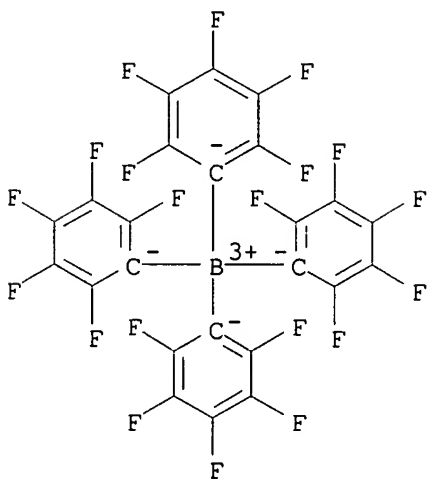
CRN 200573-25-7

CMF C11 H10 N O3



CM 2

CRN 47855-94-7
 CMF C24 B F20
 CCI CCS



L33 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:784233 HCAPLUS
 DN 128:76169
 TI Radically polymerizable compositions and their cured products
 IN Toba, Yasumasa
 PA Toyo Ink Mfg. Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 35 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09316117	A2	19971209	JP 1996-139823	19960603
PRAI	JP 1996-139823		19960603		
OS	MARPAT 128:76169				
AB	The comps. contain (a) polymerization initiators of onium borate complexes made				

of onium cations and (BYmZn)- (Y = F, Cl; Z = Ph substituted by ≥ 2 groups selected from F, CN, NO₂, and CF₃; m = 0-3; n = 1-4; m + n = 4) and (b) radically polymerizable compds. The polymerization initiators have good solubility in organic materials and resins and generate acids (byproducts) in compds. during polymerization, which are removed by heating. The cured

products

of the compns. are useful for molding resins, casting resins, sealants, and resists, etc. Thus, a composition prepared from 3 parts dimethylphenacylsulfonium tetrakis(pentafluorophenyl)borate (polymerization initiators) and 100 parts pentaerythritol triacrylate was applied on an Al plate and UV-irradiated to give a cured membrane without tackiness, which was heated at 150° to give an acid-free composition

IT 198641-33-7 200573-26-8

RL: CAT (Catalyst use); USES (Uses)

(polymerization initiators; radical polymerizable compns. containing generated

acid-removable polymerization initiators)

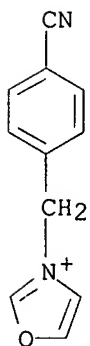
RN 198641-33-7 HCAPLUS

CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-)
(9CI) (CA INDEX NAME)

CM 1

CRN 198641-32-6

CMF C11 H9 N2 O

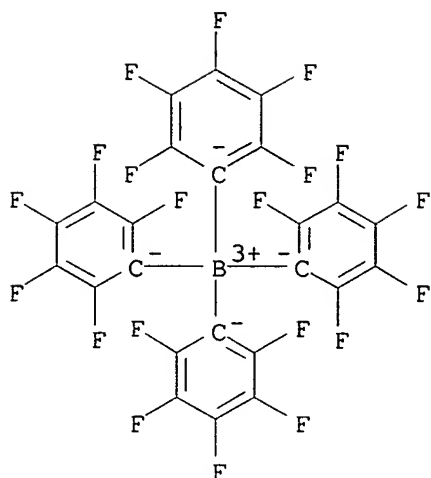


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CRN 47855-94-7

CMF C24 B F20

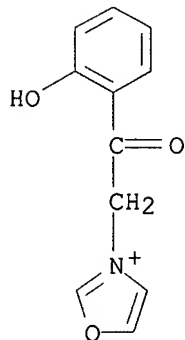
CCI CCS



RN 200573-26-8 HCAPLUS
 CN Oxazolium, 3-[2-(2-hydroxyphenyl)-2-oxoethyl]-,
 tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

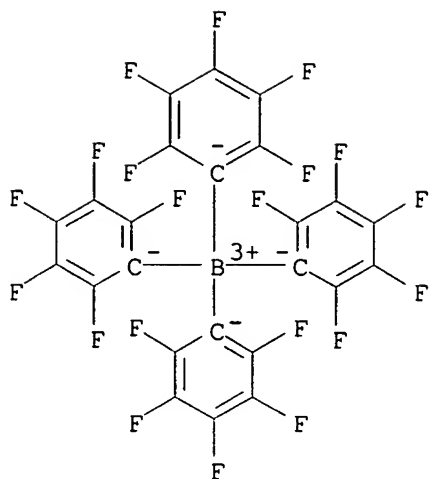
CM 1

CRN 200573-25-7
 CMF C11 H10 N O3



CM 2

CRN 47855-94-7
 CMF C24 B F20
 CCI CCS



L33 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:762055 HCAPLUS

DN 128:95393

TI Positive-working radiation-sensitive composition using onium borate complex as acid-generating agent

IN Toba, Yasumasa; Tanaka, Yasuhiro; Yasuike, Madoka

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 33 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09304931	A2	19971128	JP 1996-117204	19960513
	JP 3605939	B2	20041222		
PRAI	JP 1996-117204		19960513		

OS MARPAT 128:95393

AB The title composition contains an energy ray-sensitive acid-generating agent of an onium borate complex comprising an onium cation and a borate anion (BYmZn)- (Y = F or Cl; Z = Ph substituted for ≥ 2

electron-attracting groups selected from F, CN, NO₂, and CF₃; m = 0-3; n = 1-4, m + n = 4) and a compound of which the affinity for or solubility in developing solution increases upon the acid-catalyzed reaction. The

composition

shows high sensitivity in broader wavelength region and high contrast.

Thus, an energy ray-sensitive composition containing poly(p-tert-butoxycarbonyloxystyrene) and dimethyphenacylsulfonium tetrakis(pentafluorophenyl)borate was coated on an Al substrate to give a presensitized plate.

IT 198641-33-7

RL: DEV (Device component use); USES (Uses)

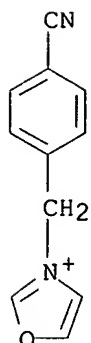
(radiation-sensitive composition containing onium borate as acid generator)

RN 198641-33-7 HCAPLUS

CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-)
(9CI) (CA INDEX NAME)

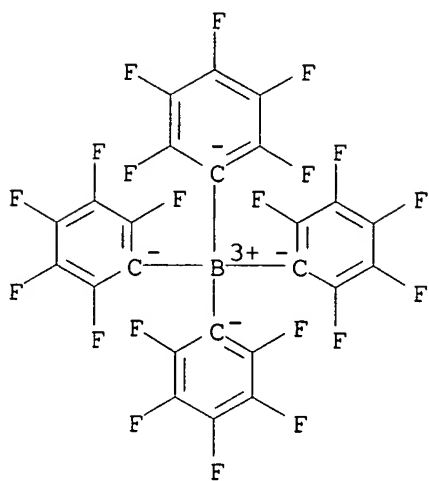
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CRN 198641-32-6
CMF C11 H9 N2 O



CM 2

CRN 47855-94-7
CMF C24 B F20
CCI CCS



L33 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:681693 HCAPLUS

DN 127:364175

TI Actinic ray-sensitive imaging composition, image formation medium and method of using same

IN Toba, Yasumasa; Tanaka, Yasuhiro; Yasuike, Madoka

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 46 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

KIND

DATE

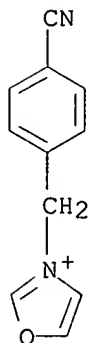
APPLICATION NO.

DATE

PI JP 09263063 A2 19971007 JP 1996-124382 19960520
PRAI JP 1996-7973 A 19960122
OS MARPAT 127:364175
AB The title composition comprises a onium cation, an actinic ray-sensitive acid generator based on a borate [BYmZn]- (Y = F, Cl; Z = Ph substituted with 2 electron attractive groups of F, cyano, nitro, trifluoromethyl; m = 0-3; n = 1-4; m + n = 4), a dye precursor capable of giving color by reacting with the generated acid, and a sensitizer or a polymer binder. Image forming medium and method using the composition are also claimed.
IT 198641-33-7
RL: TEM (Technical or engineered material use); USES (Uses)
(acid generator contained in actinic ray-sensitive imaging composition)
RN 198641-33-7 HCAPLUS
CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-)
(9CI) (CA INDEX NAME)

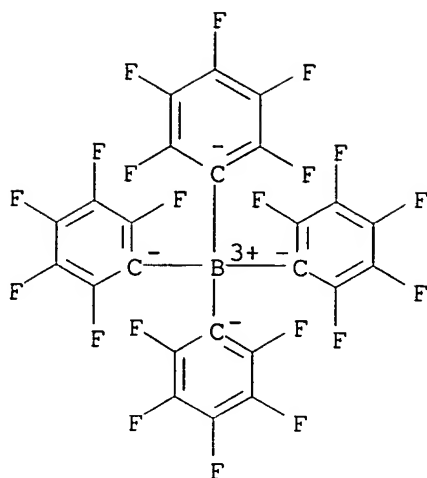
CM 1

CRN 198641-32-6
CMF C11 H9 N2 O



CM 2

CRN 47855-94-7
CMF C24 B F20
CCI CCS



L33 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:617534 HCAPLUS

DN 127:308066

TI Odorless nontoxic energy beam-sensitive acid generators with good solubility, curable compositions containing them and cured products

IN Toba, Yasumasa; Tanaka, Yasuhiro

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 39 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09241614	A2	19970916	JP 1996-45704	19960304
PRAI	JP 1996-45704		19960304		

OS MARPAT 127:308066

AB The acid generators are obtained from specified aromatic onium borate compds. having substituted quaternary N-containing heterocyclic 5-membered ring cation moieties (which may have a second N, O or S atom at position distant from the 1st N atom such as imidazolium, oxazolium and thiazolium) and fluoro borate anion moieties bearing Ph groups substituted with electron-withdrawing groups, e.g., F, NO₂, CN and azide groups, in place of previously known hexafluorophosphate and hexafluoroantimonate anions. The generators are used in compns. containing acid-curable compds., and optionally radical-polymerizable monomers, photosensitizers and radical initiators for speeding up their curing under radiation with energy beams. An example of the acid generator was N-benzylthiazolium tetrakis[3,5-bis(trifluoromethyl)phenyl]borate; the mixture of 1 part of which with 100 parts 3,4-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate (ERL-4221) could be cured with UV light.

IT **197176-26-4P**, 5-Chloromethoxycarbonyl-3-phenacyloxazolium tetrakis(pentafluorophenyl)borate **197176-79-7P**, N-(p-Methoxyphenacyl)oxazolium tris(pentafluorophenyl)fluoroborate **197176-83-3P**, N-(p-Benzoylphenacyl)oxazolium tris[3,5-bis(trifluoromethyl)phenyl]fluoroborate
 RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation);
 USES (Uses)

(odorless nontoxic energy beam-sensitive acid generators with good

solubility, curable compns. containing them and cured products)

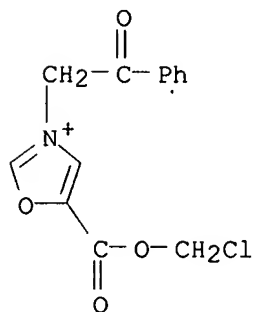
RN 197176-26-4 HCAPLUS

CN Oxazolium, 5-[(chloromethoxy)carbonyl]-3-(2-oxo-2-phenylethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 197176-25-3

CMF C13 H11 Cl N O4

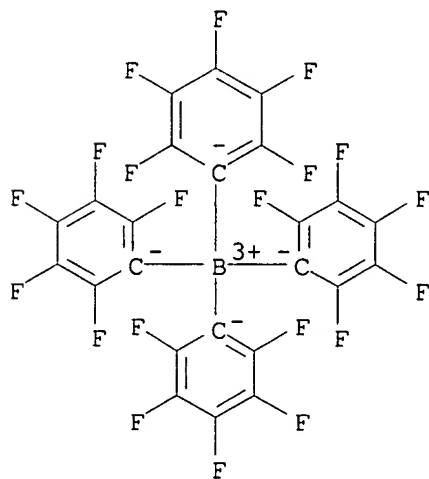


CM 2

CRN 47855-94-7

CMF C24 B F20

CCI CCS



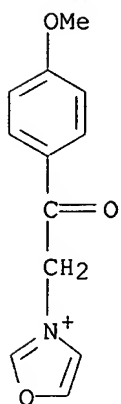
RN 197176-79-7 HCAPLUS

CN Oxazolium, 3-[2-(4-methoxyphenyl)-2-oxoethyl]-, (T-4)-fluorotris(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 197176-78-6

CMF C12 H12 N O3

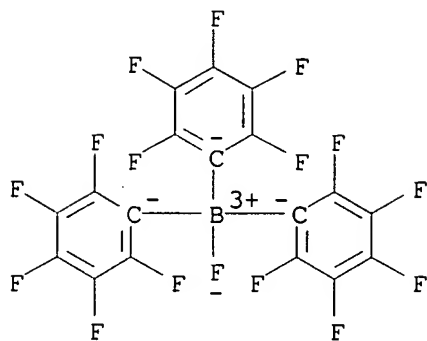


CM 2

CRN 121827-59-6

CMF C18 B F16

CCI CCS



RN 197176-83-3 HCAPLUS

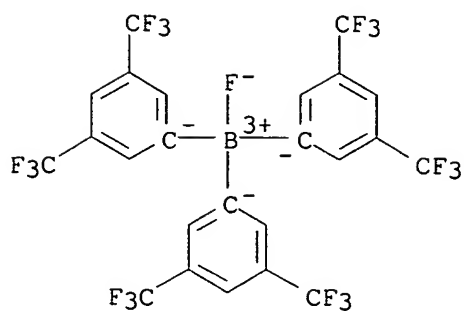
CN Oxazolium, 3-[2-(4-benzoylphenyl)-2-oxoethyl]-, (T-4)-tris[3,5-bis(trifluoromethyl)phenyl]fluoroborate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 197176-82-2

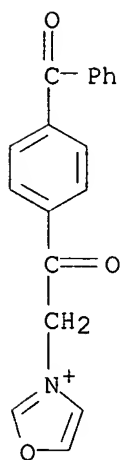
CMF C24 H9 B F19

CCI CCS

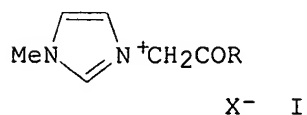


CM 2

CRN 197176-81-1
CMF C18 H14 N O3



L33 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1989:534044 HCAPLUS
DN 111:134044
TI Oral hypoglycemic agents. Discovery and structure-activity relationships of phenacylimidazolium halides
AU Dominianni, Samuel J.; Yen, Terence T.
CS Lilly Res. Lab., Lilly Corp. Cent., Indianapolis, IN, 46285, USA
SO Journal of Medicinal Chemistry (1989), 32(10), 2301-6
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
OS CASREACT 111:134044
GI



AB A series of phenacylimidazolium halides, e.g., I (R = Ph, substituted Ph; X = Br, Cl, iodo) and related compds. were prepared and tested for blood glucose levels in viable, yellow, obese, diabetic mice following oral administration. I (R = 4-MeC₆H₄, 3-MeOC₆H₄, X = Br) produced redns. of blood glucose level ca. 40% 2 h after doses of 100 mg/kg p.o. Since these mice do not respond to sulfonylureas, the glucose-lowering activity of phenacylimidazolium salts in this model suggests a mechanism other than that of stimulating insulin secretion. Only phenacylimidazolium halides with electron-donating groups were active; other azolium salts, or variations in the phenacyl portion (alterations in the keto function; chain lengthening or extensive branching) produced inactive compds.

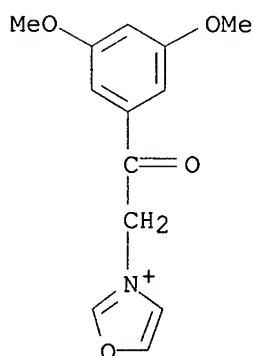
IT 121704-46-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and hypoglycemic activity of)

RN 121704-46-9 HCAPLUS

CN Oxazolium, 3-[2-(3,5-dimethoxyphenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)



● Br⁻

L33 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1977:171327 HCAPLUS

DN 86:171327

TI Synthesis of N-alkylimidazoles from N-alkyloxazolium salts

AU Kikugawa, Yasuo; Cohen, Louis A.

CS Fac. Pharm. Sci., Josai Univ., Saitama, Japan

SO Chemical & Pharmaceutical Bulletin (1976), 24(12), 3205-7

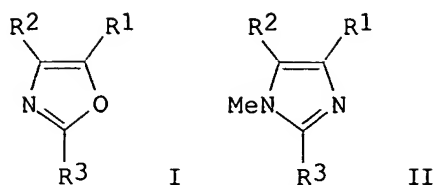
CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

OS CASREACT 86:171327

GI



AB The oxazoles I (R1 = Me, Ph, Et; R2 = Me, Ph; R3 = H, Me, Et) were converted to the corresponding N-methylimidazoles by quaternization with MeO3SF and reaction of the products with EtOH-NH3. N-Benzyl-4-methyl-5-phenyloxazolium benzenesulfonate was also converted to the N-benzylimidazole, which was debenzylated with Na-NH3(l).

IT **62833-70-9P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with ammonia-ethanol)

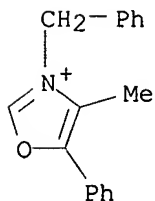
RN 62833-70-9 HCAPLUS

CN Oxazolium, 4-methyl-5-phenyl-3-(phenylmethyl)-, benzenesulfonate (9CI)
(CA INDEX NAME)

CM 1

CRN 62833-69-6

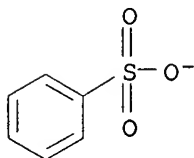
CMF C17 H16 N O



CM 2

CRN 3198-32-1

CMF C6 H5 O3 S



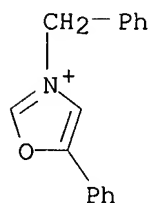
L33 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1974:536087 HCAPLUS

DN 81:136087

TI Pyrimidine derivatives and related compounds. LXXXV. Reactions of oxazolium salts with dialkyl acylphosphonates. Novel synthesis of

1,4-oxazin-3-one and azetidin-2-one derivatives
 AU Takamizawa, Akira; Sato, Hisao
 CS Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, Japan
 SO Chemical & Pharmaceutical Bulletin (1974), 22(7), 1526-41
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English
 GI For diagram(s), see printed CA Issue.
 AB Reaction of oxazolium salts (I, R = PhCH₂, Me, 4-amino-2-methyl-5-pyrimidinylmethyl; R₁ = H, Me, Et, Ph; R₂ = Me, Et, Ph; X = Cl, Br, I) with (R₃O)P(O)COR₄ (II; R₃ = Me, Et; R₄ = Me, Ph) in the presence of Et₃N afforded 1,4-oxazin-3-one (III) and/or azetidin-2-one derivs. (IV). In the reaction of I (R = CH₂Ph, Me; R₂ = H, R₃ = Ph) with II (R₃ = Me, R₄ = Ph), stable intermediates PhCOCH₂NRCOCHPhOP(O)(OMe)₂, were isolated. The mechanism of this reaction involving ring expansion and ring contraction, substituent effects on the reactivity, and stereochem. of IV are discussed.
 IT **54026-87-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and reaction rates with dialkyl acylphosphonates)
 RN 54026-87-8 HCAPLUS
 CN Oxazolium, 5-phenyl-3-(phenylmethyl)-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

=> => => d his 170-

(FILE 'REGISTRY' ENTERED AT 07:57:22 ON 30 NOV 2005)

FILE 'HCAPLUS' ENTERED AT 07:58:05 ON 30 NOV 2005

FILE 'REGISTRY' ENTERED AT 07:58:56 ON 30 NOV 2005
 ACT DELAC037/A

L70 61 SEA FILE=REGISTRY ABB=ON PLU=ON (392710-36-0/BI OR 616-47-7/B)

L71 23 S L70 AND IUM

FILE 'HCAPLUS' ENTERED AT 07:59:27 ON 30 NOV 2005

L72 6 S L71 AND L49, L66

L73 8 S L71, L72

FILE 'REGISTRY' ENTERED AT 08:00:29 ON 30 NOV 2005

FILE 'HCAPLUS' ENTERED AT 08:00:29 ON 30 NOV 2005

jan delaval - 30 november 2005

L74 TRA L66 1- RN : 5485 TERMS

FILE 'REGISTRY' ENTERED AT 08:00:52 ON 30 NOV 2005

L75 5485 SEA L74

L76 358 S L75 AND IUM

FILE 'HCAPLUS' ENTERED AT 08:01:56 ON 30 NOV 2005

L77 3 S L73 AND L49

L78 129 S L76 AND L49, L66

L79 3 S L77 AND L78

=> d bib abs hitstr retable tot 179

L79 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:737371 HCAPLUS

DN 139:261297

TI Method for treating fibrotic diseases or other indications with imidazolium agents

IN Wagle, Dilip; Vasan, Sara; Gall, Martin

PA Alteon, Inc., USA

SO U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U. S. Ser. No. 38,112.

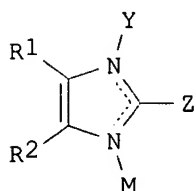
CODEN: USXXCO

DT Patent

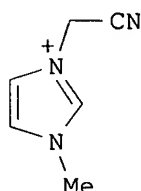
LA English

FAN.CNT 4

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	US 2002068729	A1	20020606	US 2001-905188	20010713	<--
	US 2002160993	A1	20021031	US 2001-38112	20011231	
	US 2002177586	A1	20021128	US 2001-37447	20011231	<--
	US 2005032865	A1	20050210	US 2003-645011	20030821	<--
	US 2004235837	A1	20041125	US 2004-873056	20040621	<--
PRAI	US 2000-218273P	P	20000713			<--
	US 2000-259426P	P	20001229			
	US 2000-259431P	P	20001229			
	US 2001-259242P	P	20010102			
	US 2001-296257P	P	20010606			
	US 2001-296435P	P	20010606			
	US 2001-905188	A2	20010713			<--
	US 2001-307418P	P	20010724			
	US 2001-38112	A2	20011231			
	US 2001-905035	A1	20010713			
OS	MARPAT 139:261297					
GI						



I

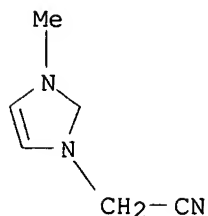


II

AB Title compds. I•X- [wherein M = cycloalkyl; X = pharmaceutically acceptable anion; Y = NH2 or CHR5R6; Z = H, alkyl, (hetero)arylmethyl, (un)substituted amino, etc.; R1 and R2 = independently H, acylamino, .

acyloxyalkyl, alkanoyl(alkyl), alkenyl, alkoxy, alkoxycarbonyl(alkyl), alkyl(amino), alkylenedioxy, ally, (dialkyl)amino, ω-alkylenesulfonic acid, carbamoyl, carboxy(alkyl), cycloalkyl, halo, hydroxy(alkyl), SH, NO₂, alkylsulfinyl, alkylthio, CF₃, azetidiny, (thio)morpholinyl, (aryl)piperidinyl, arylpiperazinyl, or (hetero)aryl, etc.; or R₁R₂ = methylenedioxy or their ring carbons form a fused cycloalkyl, heteroaryl, or heterocycle; R₅ = H, (cyclo)alkyl, alkenyl, alkynyl, (dialkyl)aminoalkyl, piperidinylalkyl, pyrrolidinylalkyl, azetidinyalkyl, alkylpiperazinylalkyl, etc.; R₆ = H, (un)substituted alkyl, alkenyl, alkynyl, CN, (hetero)aryl, etc.; or pharmaceutically acceptable salts thereof] were prepared for breaking, reversing, or inhibiting the formation of advanced glycation endproducts (AGE) or AGE-mediated crosslinks (no data). For example, the exothermic reaction 1-methylimidazole with bromoacetonitrile produced II•Br⁻. Thus, I•X⁻ and their pharmaceutical compns. are useful for treating or ameliorating fibrotic diseases or other indications in an animal, including a human (no data).

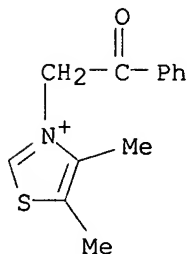
IT 392710-36-0P 393121-34-1DP, salts 393121-77-2P
 , 3-[2-(1-Pyrrolidinyl)-2-oxoethyl]-1,2-dimethylimidazolium chloride
 393121-80-7P, 1-Butyl-3-aminoimidazolium mesitylenesulfonate
 602279-69-6P 602279-70-9P 602279-71-0DP, salts
 602279-72-1DP, salts 602279-74-3DP, salts
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (AGE inhibitor; preparation of imidazolium AGE receptor inhibitors for treating fibrotic diseases or other indications)
 RN 392710-36-0 HCAPLUS
 CN 1H-Imidazolium, 1-(cyanomethyl)-3-methyl-, bromide (9CI) (CA INDEX NAME)



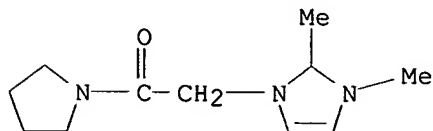
● Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 393121-34-1 HCAPLUS
 CN Thiazolium, 4,5-dimethyl-3-(2-oxo-2-phenylethyl)- (9CI) (CA INDEX NAME)



RN 393121-77-2 HCAPLUS
 CN 1H-Imidazolium, 1,2-dimethyl-3-[2-oxo-2-(1-pyrrolidinyl)ethyl]-, chloride
 (9CI) (CA INDEX NAME)



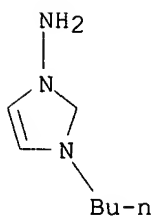
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 393121-80-7 HCAPLUS
 CN 1H-Imidazolium, 1-amino-3-butyl-, salt with 2,4,6-trimethylbenzenesulfonic
 acid (1:1) (9CI) (CA INDEX NAME)

CM 1

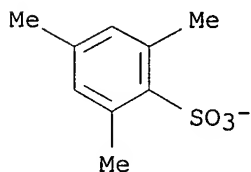
CRN 401514-28-1
 CMF C7 H14 N3



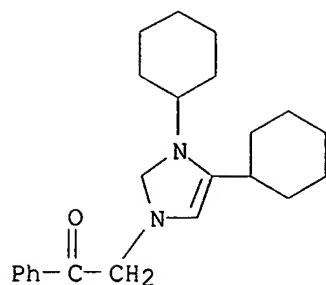
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 46149-61-5
 CMF C9 H11 O3 S



RN 602279-69-6 HCAPLUS
 CN 1H-Imidazolium, 3,4-dicyclohexyl-1-(2-oxo-2-phenylethyl)-, chloride (9CI)
 (CA INDEX NAME)

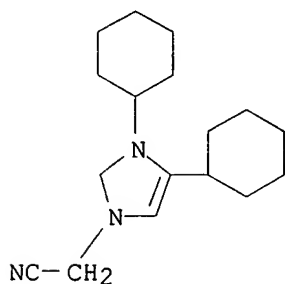


● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 602279-70-9 HCAPLUS

CN 1H-Imidazolium, 1-(cyanomethyl)-3,4-dicyclohexyl-, bromide (9CI) (CA INDEX NAME)

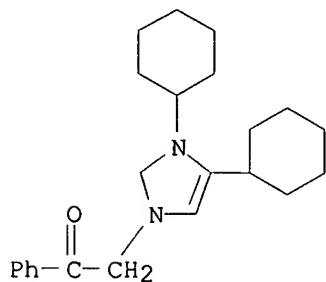


● Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 602279-71-0 HCAPLUS

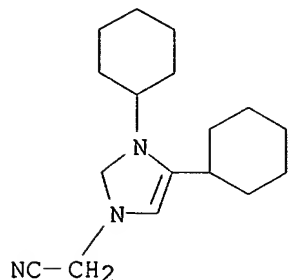
CN 1H-Imidazolium, 3,4-dicyclohexyl-1-(2-oxo-2-phenylethyl)- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 602279-72-1 HCAPLUS

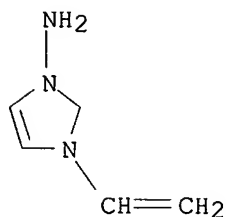
CN 1H-Imidazolium, 1-(cyanomethyl)-3,4-dicyclohexyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 602279-74-3 HCAPLUS

CN 1H-Imidazolium, 1-amino-3-ethenyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L79 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:90030 HCAPLUS

DN 136:134758

TI Preparation of cyanomethyl substituted thiazoliums and imidazoliums and treatments of disorders associated with protein aging

IN **Wagle, Dilip; Fang, Sheng Ding**

PA **Alteon, Inc., USA**

SO PCT Int. Appl., 52 pp.

CODEN: PIXXD2

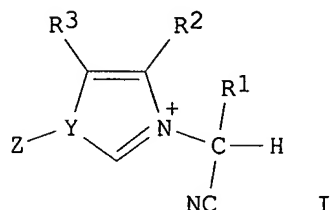
DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002008210	A1	20020131	WO 2001-US22200	20010713 <--
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
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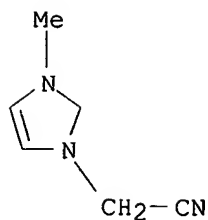
EP 1303501 A1 20030423 EP 2001-958941 20010713 <--
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 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2004504389 T2 20040212 JP 2002-514116 20010713 <--
 US 2005032865 A1 20050210 US 2003-645011 20030821 <--
 PRAI US 2000-218273P P 20000713 <--
 US 2000-259431P P 20001229
 US 2001-259242P P 20010102
 US 2001-296435P P 20010606
 US 2001-905035 A1 20010713
 WO 2001-US22200 W 20010713 <--
 OS MARPAT 136:134758
 GI



AB The preparation cyanomethyl substituted thiazoliums and imidazoliums [I; wherein Y = N, S; Z is absent if Y is S, and, if present = (C1-C7)alkyl, vinyl, allyl, arylcarbonyl, amino, etc.; R1, R4, independently = H, alkyl, Ph optionally substituted with one or more halogen, alkyl, di(lower alkyl)amino, or alkoxy groups; R2, R3 = H, acylamino, acyloxyalkyl, alkanoyl, etc.] is described. Thus, 1-methylimidazole and bromoacetonitrile were reacted to give 1-methyl-3-(2-cyanomethylene)-imidazolium bromide. The prepared compds. are useful in improving the elasticity or reducing wrinkles of a skin, treating diabetes or treating/inhibiting/ameliorating discoloration of teeth, adverse sequelae of diabetes, kidney damage, damage to blood vasculature, hypertension, retinopathy, damage to lens proteins, cataracts, peripheral neuropathy, osteoarthritis, damage to cardiovascular tissue due to heart failure, or improving myocardial elasticity, or preventing damage to tissues in the i.p. cavity caused by contact with elevated levels of reducing sugars.

IT 392710-36-0P 392710-37-1P 392710-38-2P 392710-39-3P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of cyanomethyl substituted thiazoliums and imidazoliums and treatments of disorders associated with protein aging)

RN 392710-36-0 HCAPLUS
 CN 1H-Imidazolium, 1-(cyanomethyl)-3-methyl-, bromide (9CI) (CA INDEX NAME)

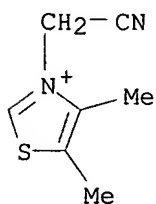


● Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 392710-37-1 HCAPLUS

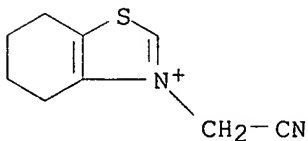
CN Thiazolium, 3-(cyanomethyl)-4,5-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 392710-38-2 HCAPLUS

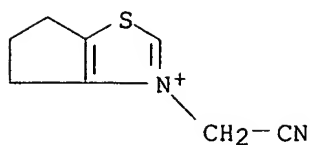
CN Benzothiazolium, 3-(cyanomethyl)-4,5,6,7-tetrahydro-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 392710-39-3 HCAPLUS

CN 4H-Cyclopentathiazolium, 3-(cyanomethyl)-5,6-dihydro-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Cerami	1998			US 5853703 A	HCAPLUS
Washabaugh	1993	21	170	Bioorganic Chemistry	HCAPLUS
Washabaugh	1989	111	674	J Am Chem Soc	HCAPLUS

L79 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:89829 HCAPLUS

DN 136:129060

TI Method for treating fibrotic diseases or other indications IC

IN Egan, Jack; Wagle, Dilip; Vasan, Sarah;
Gall, Martin

PA Alteon, Inc., USA

SO PCT Int. Appl., 72 pp.

CODEN: PIXXD2

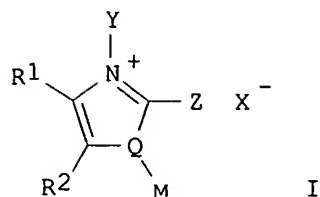
DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002007725	A1	20020131	WO 2001-US22214	20010713 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	AU 2001080551	A5	20020205	AU 2001-80551	20010713 <--
	US 2002103182	A1	20020801	US 2001-905035	20010713 <--
	US 6610716	B2	20030826		
	EP 1305024	A1	20030502	EP 2001-958946	20010713 <--
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	US 2005032865	A1	20050210	US 2003-645011	20030821 <--
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	US 2000-259431P	P	20001229		
	US 2001-259242P	P	20010102		
	US 2001-296435P	P	20010606		
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	WO 2001-US22214	W	20010713	<--	

OS MARPAT 136:129060
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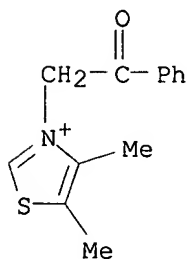


AB Provided among other things is a method of treating or ameliorating or preventing an indication of the invention in an animal, including a human, comprising administering an effective amount of I. Rats treated with 3-(2-phenyl-2-oxoethyl)-4,5-dimethylthiazolium salt had smaller weight of infarcted heart tissue with reduced thickness of ventricular wall in infarcted zone.

IT **393121-34-1D**, salts
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(treating fibrotic diseases or other indications)

RN 393121-34-1 HCAPLUS

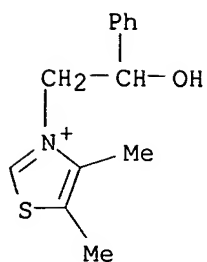
CN Thiazolium, 4,5-dimethyl-3-(2-oxo-2-phenylethyl)- (9CI) (CA INDEX NAME)



IT **356759-42-7P 356759-43-8P 356759-44-9P**
356759-45-0P 356759-46-1P 356759-47-2P
356759-48-3P 356759-50-7P 356759-52-9P
356759-53-0P 392710-36-0P 392710-37-1P
392710-38-2P 393121-65-8P 393121-77-2P
393121-80-7P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(treating fibrotic diseases or other indications)

RN 356759-42-7 HCAPLUS

CN Thiazolium, 3-(2-hydroxy-2-phenylethyl)-4,5-dimethyl-, chloride (9CI) (CA INDEX NAME)

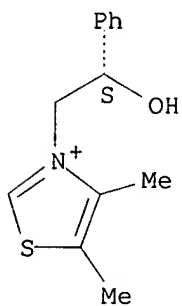


● Cl⁻

RN 356759-43-8 HCAPLUS

CN Thiazolium, 3-[(2S)-2-hydroxy-2-phenylethyl]-4,5-dimethyl-, chloride (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

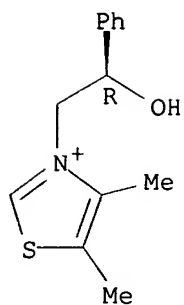


● Cl⁻

RN 356759-44-9 HCAPLUS

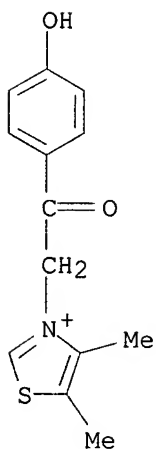
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(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



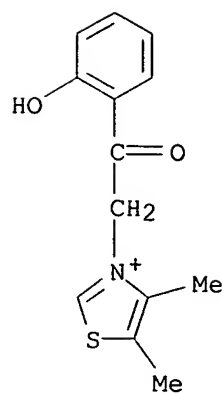
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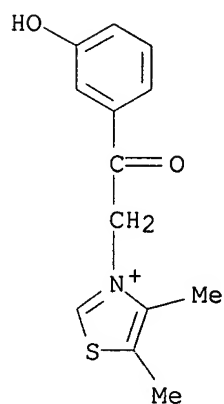
● Br^-

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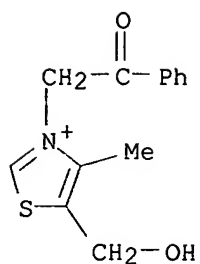
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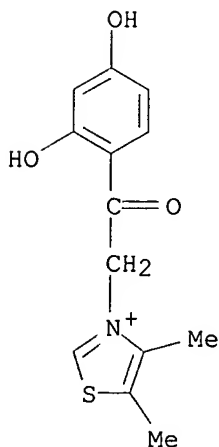
● Br⁻

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 (9CI) (CA INDEX NAME)



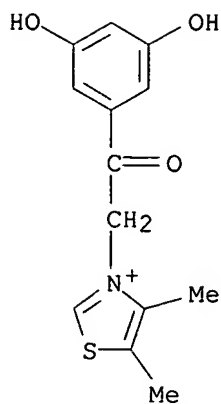
● Cl⁻

RN 356759-50-7 HCAPLUS
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 (9CI) (CA INDEX NAME)



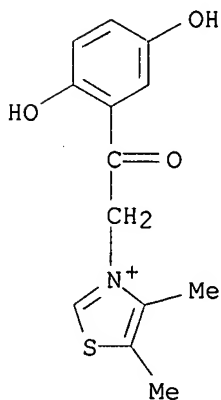
● Br⁻

RN 356759-52-9 HCAPLUS
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 (9CI) (CA INDEX NAME)



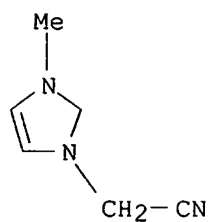
● Br⁻

RN 356759-53-0 HCAPLUS
 CN Thiazolium, 3-[2-(2,5-dihydroxyphenyl)-2-oxoethyl]-4,5-dimethyl-, bromide
 (9CI) (CA INDEX NAME)



● Br⁻

RN 392710-36-0 HCAPLUS
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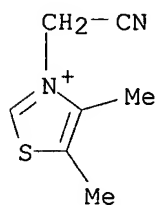


● Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 392710-37-1 HCAPLUS

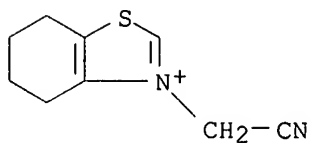
CN Thiazolium, 3-(cyanomethyl)-4,5-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 392710-38-2 HCAPLUS

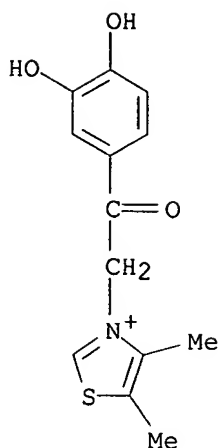
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● Br⁻

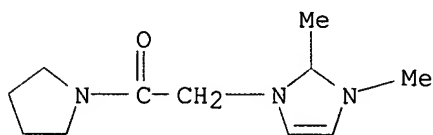
RN 393121-65-8 HCAPLUS

CN Thiazolium, 3-[2-(3,4-dihydroxyphenyl)-2-oxoethyl]-4,5-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 393121-77-2 HCAPLUS
 CN 1H-Imidazolium, 1,2-dimethyl-3-[2-oxo-2-(1-pyrrolidinyl)ethyl]-, chloride
 (9CI) (CA INDEX NAME)



● Cl⁻

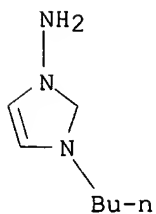
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RN 393121-80-7 HCAPLUS
 CN 1H-Imidazolium, 1-amino-3-butyl-, salt with 2,4,6-trimethylbenzenesulfonic
 acid (1:1) (9CI) (CA INDEX NAME)

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CRN 401514-28-1

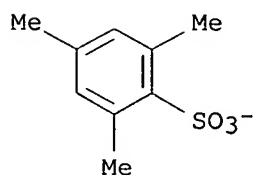
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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 46149-61-5
CMF C9 H11 O3 S



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Cerami	1998			US 5853703 A	HCAPLUS
Proteotech Inc	2000			WO 0012102 A1	HCAPLUS
The Picower Institute F	2000			WO 0003711 A1	HCAPLUS

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L6      SCR 2040
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L8      9 S L1 AND L6 SAM SUB=L5
L9      175 S L1 AND L6 FUL SUB=L5
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L10     STR L1
L11     0 S L10 SAM SUB=L9
L12     21 S L10 FUL SUB=L9
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L13     11 S L12 NOT CCS/CI
L14     STR L3
L15     23 S L14 AND L6 SAM SUB=L5
L16     STR L14
L17     3 S L6 AND L16 SAM SUB=L5
L18     71 S L16 AND L6 FUL SUB=L5
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L20     20 S L19 AND NCOC2/ES

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 L24 4 S L23 AND (C11H9N2O OR C10H9BRNO)
 L25 45 S L19 NOT L20
 L26 6 S L18 NOT L19
 L27 10 S L13 NOT NC3-NCSC3/ES
 L28 8 S L23 NOT L24
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 SAV TEMP L29 DELAC037G/A

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 L36 (69)SEA FILE=HCAPLUS ABB=ON PLU=ON ("EGAN JOHN"/AU OR "EGAN JOHN
 L37 (181)SEA FILE=HCAPLUS ABB=ON PLU=ON ("WAGLE D"/AU OR "WAGLE D G"/A
 L38 (42)SEA FILE=HCAPLUS ABB=ON PLU=ON ("VASAN S"/AU OR "VASAN S K"/A
 L39 (134)SEA FILE=HCAPLUS ABB=ON PLU=ON ("GALL M"/AU OR "GALL M A"/AU
 L40 (276)SEA FILE=HCAPLUS ABB=ON PLU=ON ("BELL S"/AU OR "BELL S A"/AU
 L41 (0)SEA FILE=HCAPLUS ABB=ON PLU=ON E30E9
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L78 129 S L76 AND L49,L66

L79 3 S L77 AND L78

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